

A STUDY OF ASSOCIATION IN INSANITY

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PART I.

ASSOCIATION IN NORMAL SUBJECTS.

Among the most striking and commonly observed manifestations of insanity are certain disorders of the flow of utterance which appear to be dependent upon a derangement of the psychical processes commonly termed association of ideas. These disorders have to some extent been made the subject of psychological experimentation, and the object of this investigation is to continue and extend the study of these phenomena by an application of the experimental method known as the association test.

§ I. METHOD OF INVESTIGATION.

In this investigation we have followed a modified form of the method developed by Sommer,¹ the essential feature of which is the statistical treatment of results obtained by uniform technique from a large number of cases.

The stimulus consists of a series of one hundred spoken words, to each of which the subject is directed to react by the first word which it makes him think of. In the selection of the stimulus words, sixty-six of which were taken from the list suggested by Sommer, we have taken care to avoid such words as are especially liable to call up personal experiences, and have so arranged the words as to separate any two which bear an obviously close relation to one another. After much preliminary experimentation we adopted the following list of words:

1 Table	11 Black	21 Sweet	31 Rough	41 High
2 Dark	12 Mutton	22 Whistle	32 Citizen	42 Working
3 Music	13 Comfort	23 Woman	33 Foot	43 Sour
4 Sickness	14 Hand	24 Cold	34 Spider	44 Earth
5 Man	15 Short	25 Slow	35 Needle	45 Trouble
6 Deep	16 Fruit	26 Wish	36 Red	46 Soldier
7 Soft	17 Butterfly	27 River	37 Sleep	47 Cabbage
8 Eating	18 Smooth	28 White	38 Anger	48 Hard
9 Mountain	19 Command	29 Beautiful	39 Carpet	49 Eagle
10 House	20 Chair	30 Window	40 Girl	50 Stomach

¹ Diagnostik der Geisteskrankheiten, p. 112.

51 Stem	61 Memory	71 Stove	81 Butter	91 Moon
52 Lamp	62 Sheep	72 Long	82 Doctor	92 Scissors
53 Dream	63 Bath	73 Religion	83 Loud	93 Quiet
54 Yellow	64 Cottage	74 Whiskey	84 Thief	94 Green
55 Bread	65 Swift	75 Child	85 Lion	95 Salt
56 Justice	66 Blue	76 Bitter	86 Joy	96 Street
57 Boy	67 Hungry	77 Hammer	87 Bed	97 King
58 Light	68 Priest	78 Thirsty	88 Heavy	98 Cheese
59 Health	69 Ocean	79 City	89 Tobacco	99 Blossom
60 Bible	70 Head	80 Square	90 Baby	100 Afraid

No attempt is made to secure uniformity of external conditions for the test; the aim has been rather to make it so simple as to render strictly experimental conditions unnecessary. The test may be made in any room that is reasonably free from distracting influences; the subject is seated with his back toward the experimenter, so that he cannot see the record; he is requested to respond to each stimulus word by one word, the first word that occurs to him other than the stimulus word itself, and on no account more than one word. If an untrained subject reacts by a sentence or phrase, a compound word, or a different grammatical form of the stimulus word, the reaction is left unrecorded, and the stimulus word is repeated at the close of the test.

In this investigation no account is taken of the reaction time. The reasons for this will be explained later.

The general plan has been first to apply the test to normal persons, so as to derive empirically a normal standard and to determine, if possible, the nature and limits of normal variation; and then to apply it to cases of various forms of insanity and to compare the results with the normal standard, with a view to determining the nature of pathological variation.

§ 2. THE NORMAL STANDARD.

In order to establish a standard which should fairly represent at least all the common types of association and which should show the extent of such variation as might be due to differences in sex, temperament, education, and environment, we have applied the test to over one thousand normal subjects.

Among these subjects were persons of both sexes and of ages ranging from eight years to over eighty years, persons following different occupations, possessing various degrees of mental capacity and education, and living in widely separated localities. Many were from Ireland, and some of these had but recently arrived in this country; others were from different parts of Europe,

but all were able to speak English with at least fair fluency. Over two hundred of the subjects, including a few university professors and other highly practiced observers, were professional men and women or college students. About five hundred were employed in one or another of the New York State hospitals for the insane, either as nurses and attendants or as workers at various trades; the majority of these were persons of common school education, but the group includes also, on the one hand, a considerable number of high school graduates; and on the other hand, a few laborers who were almost or wholly illiterate. Nearly one hundred and fifty of the subjects were boys and girls of high school age, pupils of the Ethical Culture School, New York City. The remaining subjects form a miscellaneous group, consisting largely of clerks and farmers.

§ 3. THE FREQUENCY TABLES.

From the records obtained from these normal subjects, including in all 100,000 reactions, we have compiled a series of tables, one for each stimulus word, showing all the different reactions given by one thousand subjects in response to that stimulus word, and the frequency with which each reaction has occurred.² These tables will be found at the end of this paper.

With the exception of a few distinctive proper names, which are indicated by initials, we have followed the plan of introducing each word into the table exactly as it was found in the record. In the arrangement of the words in each table, we have placed together all the derivatives of a single root, regardless of the strict alphabetical order.³

² A similar method of treating associations has been used by Cattell (*Mind*, Vol. XII, p. 68; Vol. XIV, p. 230), and more recently by Reinhold (*Zeitschr. f. Psychol.*, Vol. LIV, p. 183), but for other purposes.

³ It should be mentioned that we have discovered a few errors in these tables. Some of these were made in compiling them from the records, and were evidently due to the assistant's difficulty of reading a strange handwriting. Other errors have been found in the records themselves. Each of the stimulus words *butter*, *tobacco* and *king* appears from the tables to have been repeated by a subject as a reaction; such a reaction, had it occurred, would not have been accepted, and it is plain that the experimenter wrote the stimulus word in the space where the reaction word should have been written. Still other errors were due to the experimenter's failure to

The total number of different words elicited in response to any stimulus word is limited, varying from two hundred and eighty words in response to *anger* to seventy-two words in response to *needle*. Furthermore, for the great majority of subjects the limits are still narrower; to take a striking instance, in response to *dark* eight hundred subjects gave one or another of the following seven words: *light, night, black, color, room, bright, gloomy*; while only two hundred gave reactions other than these words; and only seventy subjects, out of the total number of one thousand, gave reactions which were not given by any other subject.

If any record obtained by this method be examined by referring to the frequency tables, the reactions contained in it will fall into two classes: the *common* reactions, those which are to be found in the tables, and the *individual* reactions, those which are not to be found in the tables. For the sake of accuracy, any reaction word which is not found in the table in its identical form, but which is a grammatical variant of a word found there, may be classed as *doubtful*.

The value of any reaction may be expressed by the figure representing the percentage of subjects who gave it. Thus the reaction, *table—chair*, which was given by two hundred and sixty-seven out of the total of our one thousand subjects, possesses a value of 26.7 per cent. The significance of this value from the clinical standpoint will be discussed later.

§ 4. NORMAL ASSOCIATIONAL TENDENCIES.

The normal subjects gave, on the average, 6.8 per cent of individual reactions, 1.5 per cent of doubtful ones, and 91.7 per cent of common ones. The range of variation was rather wide, a considerable number of subjects giving no individual reactions at all, while a few gave over 30 per cent.¹

speak with sufficient distinctness when reading off the stimulus words; thus, the reaction *barks* in response to *dark* indicates that the stimulus word was probably understood as *dog*; and the reactions *blur* and *color* in response to *bread* indicate that the stimulus word was understood as *red*.

¹In the study of the reactions furnished by our normal subjects it was possible to analyze the record of any subject only by removing it from the mass of material which forms our tables, and using as the standard of comparison the reactions of the remaining 999 subjects.

In order to determine the influence of age, sex, and education upon the tendency to give reactions of various values, we have selected three groups of subjects for special study: (1) one hundred persons of collegiate or professional education; (2) one hundred persons of common school education, employed in one of the State hospitals as attendants, but not as trained nurses; and (3) seventy-eight children under sixteen years of age. The reactions given by these subjects have been classified according to frequency of occurrence into seven groups: (a) individual reactions (value 0); (b) doubtful reactions (value \pm); (c) reactions given by one other person (value 0.1 per cent); (d) those given by from two to five others (value 0.2—0.5 per cent); (e) those given by from six to fifteen others (value 0.6—1.5 per cent); (f) those given by from sixteen to one hundred others (value 1.6—10.0 per cent); and (g) those given by more than one hundred others (value over 10.0 per cent). The averages obtained from these groups of subjects are shown in Table I, and the figures for men and women are given separately.

TABLE I.

Value of reactions		0	\pm	0.1%	0.2-0.5%	0.6-1.5%	1.6-10%	Over 10%
	Sex	Number of cases	%	%	%	%	%	%
Persons of collegiate education	M.	60	9.2	1.3	5.2	9.7	11.0	27.8
	F.	40	9.5	1.3	3.0	9.8	11.7	28.9
	Both ..	100	9.3	1.3	4.7	9.7	11.3	28.2
Persons of common school education	M.	50	5.8	1.6	3.6	8.3	10.2	31.6
	F.	50	4.6	1.3	3.3	7.1	9.4	32.0
	Both ..	100	5.2	1.4	3.5	7.7	9.8	31.8
School children under 16 years of age	M.	33	5.0	0.8	4.2	8.7	10.6	28.5
	F.	45	5.6	1.0	4.6	9.8	11.6	30.1
	Both ..	78	5.7	1.4	4.5	9.3	11.2	29.4
General average....Both ..1000			6.8	1.5				

It will be observed that the proportion of individual reactions given by the subjects of collegiate education is slightly above the general average for all subjects, while that of each of the other classes is below the general average. In view, however, of the wide limits of variation among the thousand subjects, these deviations from the general average are no larger than might quite possibly occur by chance, and the number of cases in each group is so small that the conclusion that education tends to increase the number of individual reactions would hardly be justified.

It will be observed also that this comparative study does not show any considerable differences corresponding to age or sex.

With regard to the type of reaction, it is possible to select groups of records which present more or less consistently one of the following special tendencies: (1) the tendency to react by contrasts; (2) the tendency to react by synonyms or other defining terms; and (3) the tendency to react by qualifying or specifying terms. How clearly the selected groups show these tendencies is indicated by Table II. The majority of records, however, present no such tendency in a consistent way; nor is there any evidence to show that these tendencies, when they occur, are to be regarded as manifestations of permanent mental characteristics, since they might quite possibly be due to a more or less accidental and transient associational direction. No further study has as yet been made of these tendencies, for the reason that they do not appear to possess any pathological significance.

TABLE II.

Stimulus word.	Reaction word.	General value.	Special group values.					
			Contrasting group		Defining group		Specifying group	
			49 subjects.		73 subjects.		84 subjects.	
		%	No.	%	No.	%	No.	%
1. Table....	chair	26.7	25	51.0	11	15.1	10	11.9
	furniture	7.5	0	0	13	17.8	4	4.8
	round	1.0	1	2.0	0	0	4	4.5
	wood	7.6	2	4.1	9	12.3	10	11.9
7. Soft.....	cotton	2.8	0	0	1	1.4	5	6.0
	easy	3.4	0	0	8	11.0	1	1.2
	feathers	2.4	0	0	1	1.4	5	6.0
	hard	36.5	34	69.4	14	19.2	18	21.4
	silk	1.0	0	0	0	0	2	2.4
	sponge	2.2	0	0	0	0	4	4.8
11. Black....	cloth	1.7	1	2.0	0	0	3	3.6
	color	12.9	0	0	20	27.4	6	7.1
	dress	2.9	1	2.0	1	1.4	9	10.7
	ink	1.4	0	0	1	1.4	4	4.8
	white	33.9	31	63.3	17	23.3	18	21.4
26. Wish....	desire	19.7	7	14.3	21	28.8	10	11.9
	longing	1.9	1	2.0	6	8.2	2	2.4
	money	3.2	0	0	1	1.4	3	3.6
29. Beau- tiful.	flowers	4.2	0	0	1	1.4	7	8.3
	girl	2.4	0	0	0	0	5	6.0
	homely	2.7	3	6.1	0	0	0	0
	lovely	6.4	2	4.1	7	9.6	2	2.4
	pleasing	1.6	0	0	3	4.1	0	0
	sky	1.6	0	0	0	0	3	3.6
	ugly	6.6	13	26.5	3	4.1	0	0

TABLE II.—Continued.

56. Justice..	court	6.4	2	4.1	5	6.8	10	11.9
	injustice	2.6	6	12.2	1	1.4	0	0
	right	15.7	3	6.1	20	27.4	13	15.5
59. Health..	comfort	2.6	0	0	5	6.8	1	1.2
	disease	0.9	2	4.1	0	0	1	1.2
	good	9.4	2	4.1	8	11.0	18	21.4
	sickness	15.3	23	46.9	6	8.2	1	1.2
	strength	11.2	2	4.1	12	16.4	4	4.8
65. Swift...	arrow	1.3	0	0	0	0	2	2.4
	fast	22.2	0	0	25	34.2	15	17.9
	horse	2.8	1	2.0	1	1.4	6	7.1
	quick	11.7	1	2.0	22	30.1	2	2.4
	run	1.9	0	0	0	0	4	4.8
	runner	1.3	0	0	0	0	1	1.2
	slow	19.0	30	61.2	2	2.7	4	4.8
	speed	2.9	1	2.0	5	6.8	0	0
76. Bitter...	disagreeable	1.0	0	0	2	2.7	0	0
	distasteful	1.0	0	0	4	5.5	0	0
	gall	4.2	0	0	2	2.7	3	9.5
	medicine	3.7	0	0	0	0	3	3.6
	quinine	2.3	0	0	0	0	6	7.1
	sweet	30.5	31	63.3	8	11.0	12	14.3
	taste	6.6	1	2.0	17	23.3	3	3.6
81. Butter...	bread	20.6	17	34.7	4	5.5	18	21.4
	eatable	1.2	0	0	9	12.3	0	0
	food	6.3	1	2.0	14	19.2	3	3.6
	sweet	1.2	0	0	0	0	3	3.6
	yellow	8.0	0	0	0	0	18	21.4
86. Joy.....	gladness	4.4	0	0	7	9.6	1	1.2
	grief	1.8	4	8.2	0	0	0	0
	pleasure	12.1	1	2.0	13	17.8	7	8.3
	sadness	1.3	2	4.1	0	0	0	0
	sorrow	13.5	23	46.9	2	2.7	2	2.4

§ 5. PRACTICAL CONSIDERATIONS.

This method is so simple that it requires but little training on the part of the experimenter, and but little co-operation on the part of the subject. It is not to be assumed that every reaction obtained by it is a true and immediate association to the corresponding stimulus word; but we have found it sufficient for the purpose of the test if the subject can be induced to give, in response to each stimulus word, any one word other than the stimulus word itself. No attempt is made to determine the exact degree of co-operation in any case.

In the early stages of this investigation the reaction time was regularly recorded. The results showed remarkable variations, among both normal and insane subjects. In a series of twenty-five tests, made more recently upon normal subjects, ninety reactions occupied more than ten seconds, and fifty-four of the stimulus words elicited a ten-second response from at least one subject.⁵

It is noteworthy that these extremely long intervals occur in connection with reactions of widely differing values. That they are by no means limited to individual reactions is shown in Table III. by a group of selected reactions, all given by normal subjects.

TABLE III.

Word combination	Reaction time in seconds.	Value of reaction.
comfort—happiness	20	5.0%
short—long	11	27.9%
smooth—plane	18	2.3%
woman—lady	40	4.1%
hard—iron	12	2.4%
justice—judge	20	9.1%
memory—thought	20	8.1%
joy—pleasure	18	12.1%

It is apparent, even from a superficial examination of the material, that the factors which cause variations of reaction time, both in the normal state and in pathological states, are numerous and complex.

It has been the purpose of this study to establish as far as possible strictly objective criteria for distinguishing normal from abnormal associations, and for this reason we have made no attempt to determine by means of introspection the causes of variations of reaction time.

It would seem that the importance and magnitude of the problem of association time are such as to demand not merely a crude measurement of the gross reaction time in a large number of cases, but rather a special investigation by such exact methods as have been used by Cattell⁶ and others in the analysis of the complex reaction. It would be impracticable for us to employ such methods in a study so extensive as this.

In view of these considerations we discontinued the recording of the reaction time.

⁵ These tests were made by Dr. F. Lyman Wells, of the McLean Hospital, Waverley, Mass., and he has kindly furnished these data.

⁶ Mind, Vol. XI, 1886.

If the association test is to be useful in the study of pathological conditions, it is of great importance to have a reliable measure of the associational value of a pair of ideas. Many attempts have been made to modify and amplify the classical grouping of associations according to similarity, contrast, contiguity, and sequence, so as to make it serviceable in differentiating between normal and abnormal associations.

In this study we attempted to apply Aschaffenburg's⁷ classification of reactions, but without success. Our failure to utilize this system of classification is assigned to the following considerations: (1) Distinctions between associations according to logical relations are extremely difficult to define; in many cases there is room for difference of opinion as to the proper place for an association, and thus the application of a logical scheme depends largely upon the personal equation of the observer; that even experienced observers cannot, in all cases, agree in placing an association is shown by Aschaffenburg's criticisms of the opinions of other observers on this point.⁸ (2) Logical distinctions do not bring out clearly the differences between the reactions of normal subjects and those of insane subjects; logically, the reaction *bath—ink*, which was given by a patient, might be placed in the class with the reaction *bath—water*, although there is an obvious difference between the two reactions. (3) Many of the reactions given by insane subjects possess no obvious logical value whatever; but since any combination of ideas may represent a relationship, either real or imagined, it would be arbitrary to characterize such a reaction as incoherent.

The criterion of values which is used in this study is an empirical one. As has already been explained (p. 8), every word contained in the frequency tables possesses a value of at least 0.1 per cent, and other words have a zero value. With the aid of our method the difficulty of classifying the reactions quoted above is obviated, as it is necessary only to refer to the table to find their proper values: the value of the reaction *bath—water* is 33.9 per cent, while that of the reaction *bath—ink* is 0.

⁷ Experimentelle Studien über Association. Psychologische Arbeiten, Vol. I, p. 209; Vol. II, p. 1; Vol. IV, p. 235.

⁸ Loc. cit., Vol. I, pp. 226-227.

Logically the combination *health—wealth* may be placed in any one of four classes, as follows:

health—wealth	{	intrinsic	{	causal dependence
				coordination
	{	extrinsic	{	speech reminiscence
				sound similarity

But since our table shows this association to have an empirical value of 7.6 per cent, it becomes immaterial which of its logical relations is to be considered the strongest. It is mainly important, from our point of view, to separate reactions possessing an empirical value from those whose value is zero.

§ 6. AN EMPIRICAL PRINCIPLE OF NORMAL ASSOCIATION.

On a general survey of the whole mass of material which forms the basis of the first part of this study, we are led to observe that *the one tendency which appears to be almost universal among normal persons is the tendency to give in response to any stimulus word one or another of a small group of common reactions.*

It appears from the pathological material now on hand that this tendency is greatly weakened in some cases of mental disease. Many patients have given more than 50 per cent of individual reactions.

It should be mentioned that occasionally a presumably normal subject has given a record very similar to those obtained from patients, in respect to both the number and the nature of the individual reactions. A few subjects who gave peculiar reactions were known to possess significant eccentricities, and for this reason we excluded their records from the thousand records which furnished the basis for the frequency tables; we excluded also a few peculiar records obtained from subjects of whom nothing was known, on the ground that such records would serve only to make the tables more cumbersome, without adding anything to their practical value. The total number of records thus excluded was seventeen.

It will be apparent to anyone who examines the frequency tables that the reactions obtained from one thousand persons fall short of exhausting the normal associational possibilities of these stimulus words. The tables, however, have been found to be sufficiently inclusive for the practical purpose which they were intended to

serve. Common reactions, whether given by a sane or an insane subject, may, in the vast majority of instances, safely be regarded as normal. As to individual reactions, they cannot all be regarded as abnormal, but they include nearly all those reactions which are worthy of special analysis in view of their possible pathological significance. What can be said further of individual reactions, whether normal or abnormal, will appear in the second part of this contribution.

PART II.

ASSOCIATION IN INSANE SUBJECTS.

§ I. GENERAL SURVEY OF PATHOLOGICAL MATERIAL.

The pathological material which forms the basis of the present part of our study consists mainly of two hundred and forty-seven test records obtained for the most part from patients at the Kings Park State Hospital.

The different groups from which the cases were selected, together with the number from each group, are shown in Table I.

TABLE I.

Dementia præcox	108 cases.
Paranoic conditions	33 "
Epilepsy	24 "
General paresis	32 "
Manic-depressive insanity	32 "
Involuntional melancholia	8 "
Alcoholic psychoses	6 "
Senile dementia	4 "

A comparison of our pathological with our normal material *en masse* reveals in the former evidence of a weakening of the normal tendency to respond by common reactions. This is shown in Table II.

TABLE II.

	Common reactions.	Doubtful reactions.	Individual reactions.
1,000 normal subjects	91.7%	1.5%	6.8%
247 insane subjects	70.7%	2.5%	26.8%

It seems evident from this that pathological significance attaches mainly to individual reactions, so that our study resolves itself largely into (1) an analysis and classification of individual reactions and (2) an attempt to determine what relationship, if any, exists between the different types of reactions and the different clinical forms of mental disease.

§ 2. CLASSIFICATION OF REACTIONS.

Those who have attempted to use the association test in the study of insanity have felt the need of a practical classification of reactions, and have at the same time encountered the difficulty of establishing definite criteria for distinguishing the different groups from one another. It is a comparatively simple matter to make these distinctions in a general way and even to formulate a more or less comprehensive theoretical classification, but there still remains much difficulty in practice. We have made repeated attempts to utilize various systems of classification which involve free play of personal equation in their application. Although for us the matter is greatly simplified by the elimination of all the common reactions with the aid of the frequency tables, we have nevertheless met with no success. The distinctions made by either of us have on no occasion fully satisfied, at the second reading, either the one who made them or the other, while a comparison of the distinctions made by each of us independently has shown a disagreement to the extent of 20—35 per cent.

We sought, therefore, to formulate a classification in which the various groups should be so defined as to obviate the interference of personal equation in the work of applying it, hoping thus to achieve greater accuracy. In this we can lay claim to only partial success; for, in the first place, having satisfactorily defined a number of groups, we found it necessary in the end to provide a special group for unclassified reactions, into which falls more than one-third of the total number of individual reactions; and, in the second place, in at least two of our groups the play of personal equation has not been entirely eliminated, so that there is still a possibility of error to the extent of five per cent of individual reactions, which means approximately one per cent of the total number of reactions. We have found, however, that in spite of these shortcomings the classification here proposed is more serviceable than others which, though more comprehensive, are at the same time lacking in definiteness.

Our classification consists of the following classes, groups and subdivisions:

- I. *Common reactions.*
 - 1. Specific reactions.
 - 2. Non-specific reactions.
- II. *Doubtful reactions.*
- III. *Individual reactions.*
 - 1. Normal reactions.
 - 2. Pathological reactions:
 - A. Derivatives of stimulus words.
 - B. Partial dissociation:
 - (a) Non-specific reactions.
 - (b) Sound reactions:
 - α.* Words.
 - β.* Neologisms.
 - (c) Word complements.
 - (d) Particles of speech.
 - C. Complete dissociation:
 - (a) Perseveration:
 - α.* Association to preceding stimulus.
 - β.* Association to preceding reaction.
 - γ.* Repetition of preceding stimulus.
 - δ.* Repetition of previous stimulus.
 - ε.* Repetition of preceding reaction.
 - ζ.* Repetition of previous reaction.
 - η.* Reaction repeated five times (stereotypy).
 - (b) Neologisms without sound relation.
- 3. Unclassified.

§ 3. NON-SPECIFIC REACTIONS; DOUBTFUL REACTIONS.

Non-specific Reactions.—It has already been intimated that common reactions are in the vast majority of instances to be regarded as normal. From amongst them, however, a fairly definite group can be separated out which seems to possess some pathological significance, namely, the group which we have termed non-specific.

In this group are placed words which are so widely applicable as to serve as more or less appropriate reactions to almost any of our stimulus words. That such reactions are in value inferior to the remaining group of common reactions, which we have termed, in contradistinction, *specific reactions*, is perhaps sufficiently obvious; we shall speak later, however, of their occurrence in both normal and insane cases.

It is not always easy to judge whether or not a given reaction should be classed as non-specific. A study of our material made with special reference to this type of reactions has enabled us to select the following list of words, any of which, occurring in response to any stimulus word, is classed as a non-specific reaction :

article, articles
bad
beautiful, beauty
fine
good, goodness
great
happiness, happy
large
man
necessary, necessity
nice
object (noun)
people
person
pleasant, pleasantness, pleasing, pleasure
pretty
small
thinking, thought, thoughts
unnecessary
unpleasant
use, used, useful, usefulness, useless, uselessness, uses, using
woman
work

It should be mentioned that some of these words occur as reactions to one or several stimulus words with such frequency (*citizen—man*, value 27.8 per cent ; *health—good*, value 9.4 per cent) as to acquire in such instances a value as high as that of strictly specific reactions.

Doubtful Reactions have already been defined (p. 40) : any reaction word which is not found in the table in its identical form, but which is a grammatical variant or derivative of a word found there, is placed in this group.

§ 4. INDIVIDUAL REACTIONS; EXPLANATION OF GROUPS AND METHODS OF APPLICATION.

Normal Reactions.—Inasmuch as the frequency tables do not exhaust all normal possibilities of reaction, a certain number of reactions which are essentially normal are to be found among the individual reactions. In order to separate these from the pathological reactions, we have compiled an appendix to the frequency tables, consisting mainly of specific definitions of groups of words to be included under each stimulus word in our list. This appendix will be found at the end of this paper.

A word of explanation is perhaps due as to the manner in which the appendix has been compiled. It was developed in a purely empirical way, the basis being such individual reactions, given by both normal and insane subjects, as seemed in our judgment to be obviously normal.

It must be acknowledged that the appendix falls short of all that might be desired. In the first place, its use involves to some slight extent the play of personal equation, and it therefore constitutes a source of error; in the second place, it is in some respects too inclusive while in other respects it is not sufficiently so. However, the error due to personal equation is slight; the inclusion of certain "far-fetched" or even frankly pathological reactions may be discounted by bearing in mind that the general value of this group is not equal to that of the group of common reactions; and the number of strictly normal reactions which are not included is after all small. Our experience has shown us that the appendix constitutes an important aid in the analysis of individual reactions.

Pathological Reactions. Derivatives of Stimulus Words.—We place here any reaction which is a grammatical variant or derivative of a stimulus word. The tendency to give such reactions seems to be dependent upon a suspension or inhibition of the normal process by which the stimulus word excites the production of a new concept, for we have here not a production of a new concept but a mere change in the form of the stimulus word. As examples of such reactions may be mentioned: *eating*—*eatables*, *short*—*shortness*, *sweet*—*sweetened*, *quiet*—*quietness*.

Partial Dissociation.—We have employed the term dissociation to indicate a rupture of that bond—whatever be its nature—

which may be supposed to exist normally between stimulus and reaction and which causes normal persons to respond in the majority of instances by common reactions. And we speak of partial dissociation where there is still an obvious, though weak and superficial, connection. Under this heading we can differentiate four types:

Non-specific Reactions have already been defined; we distinguish those in this class from those in the class of common reactions by means of the frequency tables.

Sound Reactions.—This type requires no explanation; the main difficulty is to decide what degree of sound similarity between stimulus and reaction should be deemed sufficient for placing a reaction under this heading. The total number of different sounds used in language articulation is, of course, small, so that any two words are liable to present considerable chance similarity. Some time ago we estimated the average degree of sound similarity between stimulus words and reaction words in a series of one hundred test records obtained from normal persons; we found that on the average 14.53 per cent of the sounds of the stimulus words were reproduced, in the same order, in the reaction word. Our experience finally led us to adopt the following general rule: A reaction is to be placed under this heading when fifty per cent of the sounds of the shorter word of the pair are identical with sounds of the longer word and are ranged in the same order.

Among sound reactions we occasionally find **neologisms**; for these a separate heading is provided. Possibly their occurrence may be taken as an indication of an exaggerated tendency to respond by sound reactions.

Word Complements.—Here we include any reaction which, added to the stimulus word, forms a word, a proper name, or a compound word in common use.

Particles of Speech.—Under this heading we include articles, numerals, pronouns, auxiliary verbs, adverbs of time, place and degree, conjunctions, prepositions, and interjections.

Complete Dissociation.—Here are included reactions which appear to be entirely unrelated to the corresponding stimulus words; in the case of such reactions the stimulus words seem to act, as Aschaffenburg has pointed out, merely as signals for discharge. This subdivision contains several types of reactions which seem to be dependent upon the phenomenon of perseveration; it contains also the rather important type of neologisms.

The phenomenon of **perseveration** occurs in cases in which one may observe an abnormal immobility of attention. To react normally to a series of stimulus words requires on the part of the subject, in the first place, a certain alertness in order that he may grasp quickly and clearly the meaning of each word, and, in the second place, a prompt shifting of the mind from one reaction to the next. When such mental mobility is lacking the subject is liable to react not by a response adjusted to the stimulus word, but either by repeating a previous stimulus or reaction, or by giving a word associated to the preceding stimulus or reaction.

The names of the different types of reactions included under the heading of perseveration are sufficiently descriptive; we shall here refer only to those which require further definition.

Association to Preceding Stimulus.—Here is placed any reaction that is shown by the frequency tables to be related to the stimulus preceding the one in question. Seeming or even obvious relationship, if not established by reference to the frequency tables, is disregarded. In the tables, however, the combination may not exist in direct order but only in reverse order, in which case the reaction is included here. The following examples may serve as illustrations:

thief—night

lion—pocket-book

Lion—pocket-book is not found in the frequency tables, and is, therefore, an individual reaction; *thief—pocket-book*, however, is found there; *pocket-book* is, therefore, classed in this case as an association to preceding stimulus.

table—fork

dark—mutton

Dark—mutton is not found in the frequency tables; *table—mutton* is also not found there in the direct order, but is found in the reverse order, viz.: *mutton—table*; *mutton* is, therefore, classed in this case as an association to preceding stimulus.

Association to Preceding Reaction.—If either the reaction in question or the preceding reaction happens to be one of the stimulus words in our list, and a relationship between the two be found to exist by reference to the frequency tables—whether in direct or in reverse order—the reaction in question is classed as

an association to preceding reaction. This is illustrated by the following examples:

eating—table
mountain—floor

Mountain—floor is an individual reaction; *table—floor* is found in the frequency tables; *floor* is, therefore, classed as an association to preceding reaction.

beautiful—flowers
window—red

Window—red is an individual reaction; *red—flowers* is found in the frequency tables; therefore, *red* is classed as an association to preceding reaction.

In cases in which neither the reaction in question nor the preceding reaction happens to be one of our stimulus words, but a relationship between them may be judged to exist without considerable doubt, the reaction in question is also classed here. Example:

priest—father
ocean—mother

Ocean—mother is an individual reaction; neither the word *father* nor the word *mother* is among our stimulus words; but the association between the words *father* and *mother* may be judged to exist without considerable doubt; therefore, in this case *mother* is classed as an association to preceding reaction.

In such cases as this personal equation must necessarily come into play; comparative uniformity of judgment may, however, be attained by systematically excluding any reaction the relationship of which to the preceding reaction is subject to any considerable doubt and by placing any such reaction in the unclassified group.

Repetition of Previous Stimulus.—Here we place any reaction which is a repetition of any previous stimulus from amongst the ten next preceding, at the same time placing **repetition of preceding stimulus** under a separate heading.

Neologisms.—Here we place the newly coined words, so commonly given by the insane, excepting such as possess a sound relationship to the stimulus word, for which, as already stated, a special place in the classification has been provided.

Neologisms might be divided into three types, as follows: (1) those which arise from ignorance of language (*comfort—uncomfort, short—diminiature*); (2) distortions of actual words, apparently of pathological origin and not due to ignorance (*hungry—foodation, thief—dissteal*); and (3) those which seem to be without any meaning whatever (*scack, gehimper, hanrow, dicut*). It is, however, impossible to draw clear-cut distinctions between these types, and for this reason we have made no provision in our classification for such division.

Unclassified Reactions.—This group is important, in the first place, because it is numerically a large one, and in the second place, because it contains certain fairly definite types of reactions which are placed here for the sole reason that we have not been able to find strictly objective criteria for their differentiation from other types.

It has already been stated that the frequency tables, even together with the appendix, fail to exhaust all normal possibilities of association, so that a certain small number of perfectly normal reactions must fall into the unclassified group. We submit the following examples:

music—listen
smooth—suave
sour—curdled
earth—mound

Another type of reactions found in the unclassified group, though also normal, yet not obviously so until explained by the subject, is represented by those which originate from purely personal experiences, such as the following, given by normal subjects:

blossom—T
hammer—J

The first of these reactions is explained by the subject's acquaintance with a young lady, Miss T, who has been nicknamed "Blossom," and the second is explained by the subject's having among her pupils at school a boy by the name of J Hammer.

It would be difficult to estimate the proportion of such reactions in the unclassified group, but we have gained the general

impression that it is small. An attempt to place them in a separate group could be made only with the aid of explanations from the subjects; such aid in the case of insane subjects is generally unreliable. Moreover, to class these reactions as strictly normal would perhaps be going too far, since their general value is obviously inferior to that of the common reactions; and in any case in which they are given in unusually large numbers they must be regarded as manifestation of a tendency to depart from the normal to the extent to which they displace common reactions.

The next type of reactions met with in the unclassified group is characterized by a peculiarly superficial, or non-essential, or purely *circumstantial* relationship to the stimulus. Such reactions, though occasionally given by normal subjects, are more often given by insane ones, and seem to be somewhat characteristic of states of mental deterioration which are clinically rather loosely described as puerilism. We offer the following examples, given by normal subjects:

music—town
sickness—summer
child—unknown
house—enter

Still another type of reactions to be considered in this connection consists of words which are in no way related to the corresponding stimulus words, but which arise from *distraction* of the subject by surrounding objects, sounds, and the like. In some cases the experimenter may be able to judge from the direction of the subject's gaze, from a listening attitude, and so on, that certain reactions are due to distraction. In other cases, particularly in cases of normal subjects, the fact that certain reactions are due to distraction may be determined by questioning the subject on this point immediately after making the test. In work with insane subjects, as we have several times had occasion to point out, such aid is generally not available.

The group of unclassified reactions includes also one more type of reactions which are of great importance both numerically and otherwise. These are the *incoherent reactions*, that is to say, reactions which are determined neither by the stimulus words, nor by the agency of perseveration, nor by distraction.

Although the occurrence of incoherent reactions is hardly subject to doubt, yet in no instance is it possible to establish with certainty that a given reaction is of this type, for in no instance can a remote, or an imagined, or a merely symbolic relationship between stimulus and reaction be positively excluded. Some, indeed, would assert that some such relationship must necessarily exist in every instance, at least in the domain of the subconscious. This circumstance necessitates the placing of this type of reactions in the unclassified group.

In practice it may be found advisable in some cases to analyze the unclassified reactions with a view to ascertaining to what extent each of the various types is represented among them. But one here treads on slippery ground, and one must be continually warned against the danger of erroneous conclusions.

§ 5. ORDER OF PREFERENCE.

After having developed the classification here proposed we found that there was still considerable room for difference of opinion in the placing of many reactions, owing to the circumstance that in many cases a reaction presents features which render it assignable under any one of two or more headings. To leave the matter of preference in grouping to be decided in each case according to the best judgment of the experimenter would mean introducing again the play of personal equation, and would thus court failure of all our efforts to accomplish a standardization of the association test. Therefore, the necessity of establishing a proper order of preference for guidance in the application of the classification became to us quite apparent.

In the arrangement of the order of preference we were guided mainly by two principles, namely: (1) as between two groups of unequal definition, the one which is more clearly defined and which, therefore, leaves less play for personal equation is to be preferred; (2) as between two groups of equal definition, the one which possesses the greater pathological significance is to be preferred. In accordance with these principles we have adopted the order of preference shown in Table III., placing every reaction under the highest heading on the list under which it may be properly classed.

TABLE III.

1. Non-specific (common).
2. Doubtful reactions.
- INDIVIDUAL REACTIONS.
3. Sound reactions (neologisms).
4. Neologisms without sound relation.
5. Repetition of preceding reaction.
6. Reaction repeated five times.
7. Repetition of preceding stimulus.
8. Derivatives.
9. Non-specific reactions.
10. Sound reactions (words).
11. Word complements.
12. Particles of speech.
13. Association to preceding stimulus.
14. Association to preceding reaction (by frequency tables).
15. Repetition of previous reaction.
16. Repetition of previous stimulus.
17. Normal (by appendix).
18. Association to preceding reaction (without frequency tables).
19. Unclassified.

§ 6. ERRORS INVOLVED IN THE USE OF ARBITRARY OBJECTIVE STANDARDS.

It may readily be seen that such definiteness and uniformity as this classification possesses results from the introduction of more or less arbitrary criteria for the differentiation of the various types of reactions. The question might arise, To what extent do the distinctions thus made correspond to reality? To consider, for instance, our rule for the placing of sound reactions (50 per cent of the sounds of the shorter word to be present, in the same order, in the other word) : when a given reaction (*man—minstrel*) is in accordance with the rule assigned under the heading of sound reactions, can it be assumed that sound similarity and not some other relationship is the determining factor of the association in question? Or when in a given instance (*cabbage—cobweb*) the sound similarity falls somewhat short of the standard required by the rule, can it be assumed that sound similarity is not, after all, the determining factor?

Similar questions may, of course, arise in connection with other subdivisions.

It must, indeed, be conceded that objective methods can reveal but indirectly and with uncertainty the inner mechanism which produces any association and that in any given instance it would be impossible to establish the correctness of grouping in accordance with such methods. However, to decide that question for any given reaction is really not necessary in practice, since an error

made through wrongly placing one, two, or three reactions under any heading is of no significance; the types acquire importance only when represented by large numbers in a record under consideration; and when many reactions fall under a single heading the likelihood of error, as affecting the record as a whole, is by that fact alone greatly reduced.

The whole question might more profitably be approached from another point of view: To what extent are the distinctions of this classification useful? An answer to this question can be found only in the results.

§ 7. ANALYSIS OF PATHOLOGICAL MATERIAL.

We present in Table IV. the results of a statistical examination of the records obtained from certain groups of normal subjects and from some groups of insane subjects.

The normal groups have been studied for the purpose of determining the frequency and manner of occurrence among normal subjects of the various types of abnormal reactions. It seemed best for this purpose to consider separately the records of those subjects who gave an unusually large number of individual reactions. Fifty-three records containing fifteen or more individual reactions were found after a fairly diligent search among our normal test records. In the other groups of subjects—persons of common school education, persons of collegiate education, and children—we included no records containing more than ten individual reactions.

The more striking departures from average normal figures are indicated in the table by the use of heavy type.

This table reveals some special associational tendencies as occurring in connection with the psychoses studied. A better insight into the nature of these tendencies can be gained by a special analysis of the test records of each clinical group.

DEMENTIA PRÆCOX.

In this psychosis we find the average number of individual reactions far exceeding not only that of the normal but also that of any other psychosis which we have studied. To a corresponding extent we find the average number of the highest type of normal reactions—the common specific reactions—reduced.

While almost every type of individual reactions shows here an

TABLE IV.

TYPES OF REACTIONS.																																
	86 normal subjects, common school education; records containing not over 10 individual reactions.			66 normal subjects, collegiate education; records containing not over 10 individual reactions.			46 normal subjects, school children; records containing not over 10 individual reactions.			63 normal subjects; records containing 16 individual reactions.			108 cases of dementia praecox.			88 cases of paranoic conditions.			24 cases of epilepsy.			82 cases of general paresis.			82 cases of manic-depressive insanity.							
	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.	Median per cent of all reactions.	Average per cent of all reactions.	Median per cent of individual reactions.					
<i>Common reactions:</i>																																
Specific reactions.....	90	89.8	4	4.9	.....	90	89.7	.....	91	89.4	.....	72	71.4	.....	63	58.9	.....	82	71.8	.....	71	68.7	.....	78	71.8	.....	80	71.2				
Non-specific reactions.....	1	1.1	.....	1	0.6	.....	0	0.7	.....	5	5.7	.....	3	4.8	.....	4	4.2	.....	4	4.8	.....	5	6.0	.....	4	5.3	.....	8	4.6			
<i>Doubtful reactions</i>.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>Individual reactions:</i>																																
Normal reactions.....	2	1.8	41.8	.....	1	1.8	35.3	.....	1	1.6	42.0	.....	7	7.3	33.4	.....	4	4.8	13.9	.....	8	8.5	16.3	.....	3	3.6	17.4	.....	4	5.3	24.8	
Derivatives of stimulus words.....	0	0.01	0.8	.....	0	0.02	0.3	.....	0	0	0	.....	0	0	0.04	0.2	.....	0	0.10	0.46	.....	0	0.04	0.16	.....	0	0.09	0.45	.....	0	0.09	0.48
Non-specific reactions.....	0	0.1	2.3	.....	0	0.1	1.2	.....	0	0.2	5.3	.....	0	0	0.4	2.0	.....	0	0.70	1.7	.....	0	0.5	1.8	.....	0	0.5	2.4	.....	0	0.5	1.8
Sound reactions (words).....	0	0.08	1.9	.....	0	0.05	0.9	.....	0	0	0	.....	0	0	0.11	0.5	.....	0	1.60	4.7	.....	0	0.54	2.0	.....	0	0.54	2.0	.....	0	0.54	2.0
Sound reactions (neologisms).....	0	0.01	0.3	.....	0	0.02	0.3	.....	0	0	0	.....	0	0	0	0	.....	0	1.60	4.7	.....	0	0.17	0.6	.....	0	0.17	0.6	.....	0	0.17	0.6
Word complements.....	0	0.01	0.3	.....	0	0.03	0.5	.....	0	0	0	.....	0	0	0	0	.....	0	1.60	4.7	.....	0	0	0	.....	0	0	0	.....	0	0	0
Particles of speech.....	0	0.09	2.2	.....	0	0.08	1.2	.....	0	0.06	1.6	.....	0	0	0.08	0.3	.....	0	1.60	4.7	.....	0	1.58	5.8	.....	0	1.58	5.8	.....	0	1.58	5.8
Association to preceding stimulus.....	0	0.06	1.4	.....	0	0.06	1.2	.....	0	0.04	1.1	.....	0	0	0.08	0.2	.....	0	1.60	4.7	.....	0	1.04	3.8	.....	0	1.04	3.8	.....	0	1.04	3.8
Association to preceding stimulus.....	0	0	0	.....	0	0.03	0.3	.....	0	0	0	.....	0	0	0.09	0.4	.....	0	1.60	4.7	.....	0	1.25	9.2	.....	0	1.25	9.2	.....	0	1.25	9.2
Repetition of preceding stimulus.....	0	0	0	.....	0	0.03	0.3	.....	0	0	0	.....	0	0	0.02	0.1	.....	0	1.60	4.7	.....	0	0.08	0.3	.....	0	0.08	0.3	.....	0	0.08	0.3
Repetition of preceding stimulus.....	0	0	0	.....	0	0.01	0.6	.....	0	0	0	.....	0	0	0.02	0.1	.....	0	1.60	4.7	.....	0	0.29	1.1	.....	0	0.29	1.1	.....	0	0.29	1.1
Repetition of preceding reaction.....	0	0	0	.....	0	0.03	0.6	.....	0	0.02	0.5	.....	0	0	0.08	0.3	.....	0	1.60	4.7	.....	0	0.58	2.1	.....	0	0.58	2.1	.....	0	0.58	2.1
Repetition of preceding reaction.....	0	0.21	4.7	.....	0	0.31	5.3	.....	0	0.23	5.8	.....	0	0	0.22	4.2	.....	0	1.60	4.7	.....	0	3.46	12.7	.....	0	3.46	12.7	.....	0	3.46	12.7
Reaction repeated five times.....	0	0	0	.....	0	0.05	0.9	.....	0	0.08	2.1	.....	0	0	0.32	1.5	.....	0	1.60	4.7	.....	0	1.21	5.5	.....	0	1.21	5.5	.....	0	1.21	5.5
Neologisms without sound relation.....	0	0	0	.....	0	0	0	.....	0	0	0	.....	0	0	0	0	.....	0	1.60	4.7	.....	0	0.58	2.1	.....	0	0.58	2.1	.....	0	0.58	2.1
Unclassified.....	2	1.8	48.4	.....	2	2.5	50.3	.....	1	1.5	39.4	.....	11	11.1	51.2	.....	11	16.2	47.2	.....	5	9.8	43.6	.....	6	7.7	28.6	.....	5	6.9	28.4	
Total individual reactions.....	4	4.2	.....	.....	5	5.1	.....	.....	4	3.9	.....	.....	21	21.8	.....	20	34.3	.....	10	21.8	.....	19	27.2	.....	14	20.8	.....	11	21.6	.....	.....

increase over the normal averages, the most striking increases are shown by the table to be in the groups of unclassified reactions, neologisms, sound reactions, and some types of perseveration. A further examination of the individual test records shows that there is no uniformity of associational tendencies in this clinical group, but that several tendencies are more or less frequently met with either alone or in various combinations. Yet some of these tendencies, when appearing at all prominently, are so highly characteristic of dementia præcox as to be almost pathognomonic. Among these may be mentioned: (1) the tendency to give *neologisms*, particularly those of the senseless type; (2) the tendency to give unclassified reactions largely of the *incoherent* type; and (3) the tendency toward *stereotypy* manifested chiefly by abnormally frequent repetitions of the same reaction. Fairly characteristic also is the occasional tendency to give sound reactions. Again, occasionally one encounters pronounced *perseveration*, and at least two of our subjects gave a good many unclassified reactions obviously due to *distraction*.

It must be noted that not infrequently cases of dementia præcox give test records that cannot be distinguished from normal. It seems that the pathological associational tendencies constitute merely a special group of symptoms, some of which may be expected to be manifest in cases which have reached a state of advanced mental deterioration, but may not necessarily be present in the early stages of the disease. On the other hand there is evidence to show that these tendencies may in some cases appear among the earliest manifestations. This matter will be referred to again.

Thus the test records of dementia præcox depart from the normal not sharply but by a gradual shading off. We find similar gradual transitions between dementia præcox and other psychoses. For this work we selected cases in which the diagnoses were established with reasonable certainty. Whether or not in cases of doubtful clinical classification this association test may be of aid in determining the diagnosis, is a question that must for the present remain open.

We submit herewith copies of test records. The numbers which appear after the reactions indicate in each case the reaction type, in accordance with Table III. (p. 27); common specific reactions are not numbered.

CASE No. 4752.—H. J. Neologisms; some unclassified reactions, mostly incoherent.

Table—meadow	19	Needle—himper	4	Ocean—himmer	4
Dark—black		Red—gumper	4	Head—himper	4
Music—sweet		Sleep—moop	4	Stove—gamper	4
Sickness—dead	2	Anger—rumble	19	Long—humble	19
Man—manion	3	Carpet—slamper	4	Religion—gumper	4
Deep—near	19	Girl—hinker	4	Whiskey—numper	4
Soft—sooner	19	High—humper	4	Child—himmer	4
Eating—formble	4	Working—gumpip	4	Bitter—gehimper	3
Mountain—gair	4	Sour—imper	4	Hammer—gueep	4
House—temble	4	Earth—gumper	4	Thirsty—humper	4
Black—benched	4	Trouble—humper	4	City—deeper	19
Mutton—ranchd	4	Soldier—guipper	4	Square—humper	4
Comfort—bumble	4	Cabbage—phar	4	Butter—himper	3
Hand—semble	4	Hard—her	12	Doctor—harnar	4
Short—simber	4	Eagle—damnornott	4	Loud—harnar	4
Fruit—narrow	13	Stomach—dumper	4	Thief—himmer	4
Butterfly—Ben	19	Stem—gumper	4	Lion—humor	19
Smooth—gum	19	Lamp—huntznit	4	Joy—gumpier	4
Command—bramble	19	Dream—hungnot	4	Bed—hoomer	4
Chair—low		Yellow—bampir	4	Heavy—doomer	4
Sweet—temper	19	Bread—gumper	4	Tobacco—per	12
Whistle—bensid	4	Justice—sidnerber	4	Baby—hoomer	4
Woman—hummary	4	Boy—eeper	4	Moon—gumper	4
Cold—gunst	4	Light—huntznit	4	Scissors—gumper	4
Slow—bemper	4	Health—geeper	4	Quiet—humper	4
Wish—tip	19	Bible—himper	4	Green—guet	3
River—gumper	4	Memory—hummer	19	Salt—rummer	4
White—Andes	19	Sheep—hunner	4	Street—numper	4
Beautiful—gimper	4	Bath—bemnitper	4	King—himper	4
Window—hummer	4	Cottage—gumper	4	Cheese—guinter	4
Rough—geep	4	Swift—dumper	4	Blossom—yunger	4
Citizen—humper	4	Blue—dipper	19	Afraid—yunger	4
Foot—zuper	4	Hungry—hummer	3		
Spider—gumper	4	Priest—rump	19		

CASE No. 5183.—G. D. Neologisms; numerous unclassified reactions, mostly incoherent; some sound neologisms.

Table—muss	19	Needle—cast	15	Ocean—men	19
Dark—gone	19	Red—Roman	19	Head—will	19
Music—caffa	4	Sleep—scack	4	Stove—somen	4
Sickness—monk	19	Anger—gois	4	Long—lass	19
Man—boy	19	Carpet—noise	13	Religion—cor	4
Deep—lesson	19	Girl—call	18	Whiskey—hanrow	4
Soft—ness	4	High—hort	4	Child—vand	4
Eating—pie		Working—kafir	19	Bitter—bike	15
Mountain—Gus	19	Sour—romerscotters	4	Hammer—hemmel	3
House—muss	15	Earth—bell	19	Thirsty—cass	4
Black—court	19	Trouble—tramine	4	City—cor	4
Mutton—beef		Soldier—gas	19	Square—malice	19
Comfort—ness	4	Cabbage—cor	4	Butter—back	19
Hand—koy	4	Hard—kalbas	4	Doctor—ness	4
Short—ness	4	Eagle—bell	15	Loud—arman	4
Fruit—dalb	4	Stomach—chenic	4	Thief—cast	15
Butterfly—flack	4	Stem—trackstar	3	Lion—loss	15
Smooth—mess	19	Lamp—loss	19	Joy—kafir	15
Command—cork	19	Dream—melso	4	Bed—banrow	4
Chair—ness	4	Yellow—ormondo	4	Heavy—cast	15
Sweet—Bess	17	Bread—life		Tobacco—colrow	4
Whistle—toy		Justice—quartz	19	Baby—boil	19
Woman—girl		Boy—nellan	4	Moon—padoc	4
Cold—cork	15	Light—cor	4	Scissors—kantow	4
Slow—mass	19	Health—hallenbee	4	Quiet—kilroe	4
Wish—vell	4	Bible—book		Green—graff	10
River—mouth	4	Memory—bike	19	Salt—semen	19
White—cast	17	Sheep—armen	4	Street—pess	4
Beautiful—ness	4	Bath—cor	4	King—guess	19
Window—crow	19	Cottage—callan	4	Cheese—tiffer	4
Rough—ratter	19	Swift—swar	3	Blossom—cad	19
Citizen—tide	4	Blue—blacksen	4	Afraid—mellows	19
Foot—malloy	4	Hungry—scatterbuck	4		
Spider—straw	19	Priest—canon	17		

CASE No. 1500.—D. V. Considerable number of neologisms; stereotypy manifested partly in a tendency toward frequent repetition of certain reactions but mainly in a persistent tendency to make use of the grammatical form of present participle, giving rise to numerous doubtful reactions.

Table—stand	Needle—stinging	2	Ocean—moving	2
Dark—lonesome	Red—coloring		Head—setting	15
Music—playing	Sleep—dreaming		Stove—warm	
Sickness—disease	Anger—widing	4	Long—slowly	2
Man—hiding	Carpet—cleaning		Religion—everything	19
Deep—unreckless	Girl—pretty	1	Whiskey—burning	
Soft—beginning	High—degrace	4	Child—born	
Eating—plenty	Working—nobody	19	Bitter—taking	19
Mountain—high	Sour—holling	4	Hammer—hitting	2
House—standing	Earth—disgrace	19	Thirsty—drinking	
Black—grivelling	Trouble—plenty		City—welldebell	4
Mutton—plenty	Soldier—shooting	13	Square—taking	15
Comfort—laying	Cabbage—welldebell	4	Butter—soft	
Hand—disease	Hard—caming	4	Doctor—instrument	19
Short—writing	Eagle—setting	19	Loud—speaking	2
Fruit—coming	Stomach—degrivel	4	Thief—gitting	4
Butterfly—flying	Stem—biting	19	Lion—scared	17
Smooth—glimming	Lamp—burning		Joy—playing	2
Command—master	Dream—walking	19	Bed—laying	2
Chair—standing	Yellow—blowing	15	Heavy—raisen	4
Sweet—sugar	Bread—making		Tobacco—eating	19
Whistle—blowing	Justice—unpossible	4	Baby—born	
Woman—loving	Boy—growing	2	Moon—shining	
Cold—cellar	Light—stand	6	Scissors—cutting	
Slow—coming	Health—raising	19	Quiet—hitting	15
Wish—dreaming	Bible—teaching	2	Green—landed	19
River—divided	Memory—together	12	Salt—throwing	19
White—wall	Sheep—weeding	19	Street—walking	
Beautiful—pleasant	Bath—held	19	King—tension	19
Window—breaking	Cottage—standing	2	Cheese—eating	
Rough—tumble	Swift—incuriosable	4	Blossom—growing	2
Citizen—gentleman	Blue—smooven	4	Afraid—nobody	
Foot—sweating	Hungry—uncareless	4		
Spider—biting	Priest—going	19		

CASE No. 5138.—C. J. Unclassified reactions, mostly incoherent.

Table—tablecloth	Needle—lifter	19	Ocean—waves	
Dark—forward	Red—dove	19	Head—black	
Music—instrument	Sleep—coat	13	Stove—lid	
Sickness—fluid	Anger—smile	19	Long—short	
Man—hemale	Carpet—gas	19	Religion—Christian	
Deep—steep	Girl—kite	19	Whiskey—malt	
Soft—hard	High—cow	19	Child—baby	
Eating—mountain	Working—candy	19	Bitter—sweet	
Mountain—raven	Sour—peach	17	Hammer—nail	
House—shutter	Earth—balloon	19	Thirsty—water	
Black—blue	Trouble—grass	13	City—steepie	19
Mutton—beef	Soldier—brass	17	Square—marble	19
Comfort—discomfort	Cabbage—flea	19	Butter—bread	
Hand—wrist	Hard—cat	19	Doctor—aster	19
Short—tall	Eagle—negro	10	Loud—fog	19
Fruit—vegetable	Stomach—winter	19	Thief—Mary	19
Butterfly—bee	Stem—leaf		Lion—tiger	
Smooth—rough	Lamp—cloth	19	Joy—glad	
Command—orders	Dream—slumber		Bed—sheet	
Chair—sofa	Yellow—pink		Heavy—light	
Sweet—sour	Bread—glass	19	Tobacco—smoke	
Whistle—fife	Justice—coal	19	Baby—powder	
Woman—girl	Boy—maid		Moon—sky	
Cold—warm	Light—shine		Scissors—handle	
Slow—faster	Health—pale	17	Quiet—sing	19
Wish—not	Bible—leaf		Green—pink	
River—neck	Memory—grief	19	Salt—chimney	19
White—blue	Sheep—giraffe	19	Street—block	
Beautiful—homely	Bath—soap		King—crown	
Window—sill	Cottage—scene	19	Cheese—tea	17
Rough—paint	Swift—slow		Blossom—leaves	
Citizen—pedestrian	Blue—piece	19	Afraid—frighten	
Foot—rose	Hungry—food			
Spider—towel	Priest—minister			

CASE No. 17979.—R. T. Unclassified reactions, mostly incoherent.

Table—full	19	Needle—point		Ocean—supply	19
Dark—coldness	2	Red—temperature	15	Head—manager	17
Music—aeronaut	19	Sleep—rest		Stove—shake	19
Sickness—better		Anger—temper		Long—journey	
Man—extension	19	Carpet—court	10	Religion—thought	1
Deep—electrician	19	Girl—birth	10	Whiskey—lusk	4
Soft—harden	2	High—dirt	19	Child—wish	15
Eating—stomach		Working—ease		Bitter—ennalseladiga	4
Mountain—Lord	19	Sour—balt	4	Hammer—efface	19
House—roof		Earth—vexation	19	Thirsty—want	
Black—darkness		Trouble—business		City—comforts	15
Mutton—working	19	Soldier—obedient	2	Square—crown	19
Comfort—ahead	12	Cabbage—fell	19	Butter—flavor	15
Hand—mercury	19	Hard—solid		Doctor—drum	19
Short—have	12	Eagle—government	19	Loud—temper	15
Fruit—flavor	19	Stomach—chest		Thief—caught	2
Butterfly—plant	13	Stem—wish	19	Lion—crown	15
Smooth—level		Lamp—brilliance	17	Joy—pleasure	1
Command—obedient		Dream—unso	4	Bed—comforts	
Chair—rest		Yellow—color		Heavy—thoughts	1
Sweet—polish	19	Bread—crust		Tobacco—changes	15
Whistle—note		Justice—truth		Baby—pleasure	1
Woman—comfort		Boy—obedient		Moon—brilliance	2
Cold—pleasant	1	Light—heart	2	Scissors—edge	
Slow—move		Health—feeling		Quiet—baptism	19
Wish—wealth		Bible—scripture		Green—autumn	19
River—shell	19	Memory—saying	19	Salt—gather	19
White—change	19	Sheep—wool		Street—thoroughfare	
Beautiful—sat	19	Bath—get	19	King—crown	
Window—temperature	19	Cottage—morrell	4	Cheese—flavor	15
Rough—shell	15	Swift—good	1	Blossom—wood	17
Citizen—soldier		Blue—look	19	Afraid—downhearted	17
Foot—travel		Hungry—have	12		
Spider—web		Priest—scripture	15		

CASE No. 3307.—G. F. Unclassified reactions, mostly incoherent; slight tendency to respond by sound reactions.

Table—desk		Needle—bird	13	Ocean—waves	
Dark—blue		Red—green		Head—hat	
Music—stars	13	Sleep—opening	19	Stove—blackening	2
Sickness—trees	19	Anger—angry		Long—garden	19
Man—menace	10	Carpet—stitching	19	Religion—goodness	1
Deep—soap	19	Girl—madam	17	Whiskey—Kummell	17
Soft—excited	19	High—ceiling		Child—woman	1
Eating—spelling	10	Working—easy		Bitter—coughing	19
Mountain—marbles	19	Sour—warm	19	Hammer—sofa	19
House—train	19	Earth—heaven		Thirsty—pillow	18
Black—bed	19	Trouble—astonished	19	City—united	19
Mutton—button	10	Soldier—man	1	Square—oblong	
Comfort—steak	13	Cabbage—carrot		Butter—lard	
Hand—flexible	19	Hard—softness	2	Doctor—physician	
Short—umbrella	17	Eagle—parrot		Loud—easy	
Fruit—blanket	19	Stomach—mind	19	Thief—burglar	
Butterfly—grass		Stem—stable	10	Lion—tiger	
Smooth—sheet	19	Lamp—oil		Joy—healthy	2
Command—carpet	19	Dream—awake		Bed—thread	10
Chair—store	19	Yellow—darkness	2	Heavy—gloves	17
Sweet—flower		Bread—rough	19	Tobacco—cigar	
Whistle—linen	19	Justice—male	19	Baby—hood	11
Woman—water	19	Boy—buoy	10	Moon—stars	
Cold—coal		Light—standing	19	Scissors—knife	
Slow—ferry	17	Health—very	12	Quiet—recollect	17
Wish—sample	19	Bible—ashamed	19	Green—ring	19
River—shades	19	Memory—staring	19	Salt—pencil	19
White—blue		Sheep—stock		Street—bushes	19
Beautiful—suspender	19	Bath—sponge		King—Germany	17
Window—wood		Cottage—house		Cheese—rice	17
Rough—chisel	19	Swift—mouse	19	Blossom—pepper	19
Citizen—ruler		Blue—fall	19	Afraid—allspice	18
Foot—snake	19	Hungry—appetite			
Spider—fly		Priest—pastor			

CASE No. 971.—O. M. Unclassified reactions, mostly incoherent.

Table-vote	19	Needle-pin		Ocean-sea	
Dark-plenty	19	Red-white		Head-cranium	
Music-health	19	Sleep-apple	13	Stove-soft	19
Sickness-fright	19	Anger-sour	19	Long-biles	4
Man-manager	10	Carpet-wool		Religion-bunion	10
Deep-slow	19	Girl-boy		Whiskey-vinegar	17
Soft-pepper	19	High-low		Child-edge	19
Eating-vanity	19	Working-height	13	Bitter-born	10
Mountain-slept	19	Sour-pitcher	19	Hammer-wood	
House-courage	19	Earth-clam	19	Thirsty-cradle	19
Black-funeral		Trouble-necessity	9	City-flames	19
Mutton-age	19	Soldier-marine		Square-eating	19
Comfort-slide	19	Cabbage-watermelon	17	Butter-dirt	19
Hand-credit	19	Hard-cracker	17	Doctor-malefactor	19
Short-Simpson	17	Eagle-bright	19	Loud-quinine	19
Fruit-physician	19	Stomach-back		Thief-joy	19
Butterfly-torment	19	Stem-stimulant	10	Lion-sage	19
Smooth-button	17	Lamp-hair	19	Joy-thorn	19
Command-scarf	19	Dream-knees	19	Bed-drapers	19
Chair-rage	19	Yellow-amen	12	Heavy-close	19
Sweet-cider	17	Bread-general	19	Tobacco-weed	
Whistle-lace	19	Justice-no	2	Baby-stop	19
Woman-debt	19	Boy-grass	19	Moon-starch	19
Cold-powderly	4	Light-thought	9	Scissors-crepe	17
Slow-telephone	19	Health-depression	17	Quiet-bustle	19
Wish-regret	17	Bible-judge	4	Green-color	
River-herald	19	Memory-stomach	19	Salt-throw	19
White-black		Sheep-crusade	19	Street-ferment	19
Beautiful-jolly	19	Bath-labor	19	King-jaunce	4
Window-pane		Cottage-cotton	10	Cheese-tepid	19
Rough-duty	19	Swift-depth	19	Blossom-woman	9
Citizen-ward	17	Blue-crimson	17	Afraid-shame	17
Foot-minister	19	Hungry-alloyed	19		
Spider-handsome	19	Priest-politicians	17		

CASE No. 01655.—E. H. Unclassified reactions, mostly incoherent.

Table-cent	19	Needle-drops	15	Ocean-stop	15
Dark-sweet	19	Red-glass	17	Head-strap	19
Music-delighted	2	Sleep-suits	19	Stove-pot	17
Sickness-pop	19	Anger-suits	5	Long-name	
Man-change	19	Carpet-hat	19	Religion-day	13
Deep-pass	19	Girl-president	19	Whiskey-take	19
Soft-drop	19	High-pass	19	Child-jaw	17
Eating-fair	19	Working-knock	19	Bitter-licorice	17
Mountain-heavy	19	Sour-cake	19	Hammer-sound	
House-fate	19	Earth-home		Thirsty-cards	19
Black-right	19	Trouble-news	17	City-dice	13
Mutton-with	12	Soldier-name	19	Square-muff	19
Comfort-indeed	12	Cabbage-rule	19	Butter-stick	19
Hand-span	10	Hard-rope	19	Doctor-perfect	19
Short-stop	19	Eagle-in	12	Loud-walk	15
Fruit-dip	19	Stomach-potato	17	Thief-jail	
Butterfly-home	19	Stem-pick		Lion-cow	
Smooth-days	19	Lamp-berry	18	Joy-nail	19
Command-stop	15	Dream-book		Bed-new	19
Chair-pledge	19	Yellow-lettuce	19	Heavy-down	12
Sweet-right	15	Bread-chews	17	Tobacco-prize	19
Whistle-home	15	Justice-night	15	Baby-new	15
Woman-Louisa	17	Boy-bat	17	Moon-new	
Cold-chair	16	Light-rasp	19	Scissors-teach	19
Slow-aid	19	Health-off	12	Quiet-man	1
Wish-book	2	Bible-comforter	2	Green-water	
River-shoes	19	Memory-candy	19	Salt-money	19
White-ouch	12	Sheep-eat		Street-right	15
Beautiful-not	12	Bath-sweet	19	King-girl	19
Window-papers	19	Cottage-walk	19	Cheese-house	19
Rough-lettuce	19	Swift-reason	19	Blossom-work	1
Citizen-money	17	Blue-dot	19	Afraid-jars	19
Foot-stand		Hungry-swift	16		
Spider-socks	19	Priest-birth	19		

CASE M. F. (from Hudson River State Hospital).—Unclassified reactions, mostly incoherent.

Table-heat	19	Needle-action	19	Ocean-pilot	17
Dark-succeed	19	Red-stout	19	Head-tin	19
Music-benefit	19	Sleep-lazy	17	Stove-plate	17
Sickness-steep	19	Anger-anguish	19	Long-trouble	19
Man-dicut	4	Carpet-knowledge	19	Religion-soap	19
Deep-rectify	19	Girl-first	10	Whiskey-starch	18
Soft-bed	19	High-hand	19	Child-night	19
Eating-dozey	19	Working-power	17	Bitter-contentment	19
Mountain-tulu	4	Sour-mud	19	Hammer-shortness	19
House-sails	19	Earth-sky	19	Thirsty-knife	19
Black-sunrise	19	Trouble-sorrow	19	City-mind	19
Mutton-tuition	19	Soldier-manhood	2	Square-truth	2
Comfort-blasphemous	19	Cabbage-righteous	19	Butter-biscuit	19
Hand-doing	19	Hard-beaten	17	Doctor-piles	17
Short-pest	19	Eagle-dog	19	Loud-distrust	19
Fruit-charm	19	Stomach-paste	19	Thief-babies	19
Butterfly-doctor	19	Stem-dust	10	Lion-hair	19
Smooth-border	19	Lamp-fall	19	Joy-eyesight	19
Command-right	19	Dream-idle	17	Bed-dieves	4
Chair-distill	19	Yellow-zone	19	Heavy-determined	19
Sweet-noticed	19	Bread-pan	17	Tobacco-health	19
Whistle-stead	19	Justice-tricks	17	Baby-wood	19
Woman-splice	19	Boy-barrel	19	Moon-heat	15
Cold-strap	19	Light-powers	15	Scissors-squeeze	19
Slow-chief	19	Health-kindness	19	Quiet-tears	19
Wish-shame	19	Bible-story	19	Green-fall	15
River-word	19	Memory-pillow	19	Salt-soft	10
White-color	19	Sheep-veil	19	Street-wait	19
Beautiful-better	19	Bath-ink	19	King-inches	19
Window-dull	19	Cottage-paper	19	Cheese-doctor	15
Rough-bright	18	Swift-arrow	19	Blossom-fades	19
Citizen-chum	19	Blue-cold	19	Afraid-hearts	2
Foot-relax	19	Hungry-dyes	19		
Spider-float	19	Priest-cloak	19		

CASE No. 01552.—E. J. D. Unclassified reactions, mostly incoherent.

Table-unicorn	19	Spider-jungle	19	Priest-pedestrian	15
Dark-African	17	Needle-man	9	Ocean-commotion	10
Music-love	19	Red-monde	4	Head-sugar	19
Sickness-slumber	17	Sleep-resuscitation	4	Stove-writer	19
Man-minstrel	10	Anger-uncared	19	Long-mingle	15
Deep-river	19	Carpet-foreign	15	Religion-tent	15
Soft-highwayman	19	Girl-celt	19	Whiskey-copulency	4
Eating-England	19	High-wine	10	Child-editor	19
Mountain-pleasure	1	Working-prayer	19	Bitter-backward	19
House-Christianity	19	Sour-flower	10	Hammer-youth	19
Black-directory	19	Earth-tariff	19	Thirsty-salt	17
Mutton-capers	19	Trouble-ledger	19	City-gentler	19
Comfort-mankind	12	Soldier-work	1	Square-angelus	19
Hand-surface	19	Cabbage-ancient	19	Butter-pastry	17
Short-court	10	Hard-provender	19	Doctor-veterinary	17
Fruit-pleasure	1	Eagle-school	19	Loud-muslin	19
Butterfly-dispatcher	19	Stomach-bowels	19	Thief-grocer	19
Smooth-navigation	19	Stem-tide	19	Lion-trip	19
Command	19	Lamp-scientific	19	Joy-penance	17
administration	19	Dream-somno	4	Bed-granite	19
Chair-time	19	Yellow-pain	10	Heavy-note	19
Sweet-office	13	Bread-populous	19	Tobacco-vanese	4
Whistle-foreign	19	Justice-thwart	19	Baby-school	15
Woman-usefulness	1	Boy-globe	19	Moon-element	19
Cold-frigid	19	Light-female	13	Scissors-elderly	19
Slow-vocation	19	Health-linen	19	Quiet-trinity	19
Wish-longing	19	Bible-divine	17	Green-commissioner	19
River-tributary	17	Memory-current	19	Salt-strength	19
White-island	13	Sheep-water	19	Street-voyager	19
Beautiful-unseen	19	Bath-rain	18	King-sorrow	19
Window-frugal	19	Cottage-journal	19	Cheese-holiday	19
Rough-nautical	19	Swift-yacht	17	Blossom-parks	19
Citizen-pedestrian	19	Blue-novel	19	Afraid-stamina	17
Foot-laugh	19	Hungry-viand	2		

CASE No. 667.—C. L. Pronounced stereotypy. Following note on test record: "Many attempts were made to secure a reaction other than 'cat,' but usually without success; the reaction *cold—warm* was given spontaneously and with apparent interest; most reactions were given only in response to much urging, or else mechanically, without attention."

Table—cat	6	Needle—cat	6	Ocean—cat	5
Dark—rat	18	Red—button	15	Head—cat	5
Music—shoe	19	Sleep—cat	6	Stove—cat	5
Sickness—cat	6	Anger—go	15	Long—cat	5
Man—boy	6	Carpet—cat	6	Religion—cat	5
Deep—cat	6	Girl—in	12	Whiskey—cat	5
Soft—hat	19	High—little	19	Child—cat	5
Eating—cat	6	Working—cold	19	Bitter—cat	5
Mountain—hit	19	Sour—cat	6	Hammer—cat	5
House—gold	19	Earth—tag	19	Thirsty—cat	5
Black—woman	9	Trouble—cat	5	City—cat	5
Mutton—get	19	Soldier—cat	5	Square—cat	5
Comfort—cousin	19	Cabbage—cat	5	Butter—cat	5
Hand—Jesus	19	Hard—cat	5	Doctor—cat	5
Short—hat	15	Eagle—cat	5	Loud—cat	5
Fruit—hand	16	Stomach—cat	5	Thief—cat	5
Butterfly—going	19	Stem—hat	15	Lion—cat	5
Smooth—hat	15	Lamp—cat	6	Joy—cat	5
Command—boy	5	Dream—cat	5	Bed—cat	5
Chair—hat	15	Yellow—cat	5	Heavy—cat	5
Sweet—cat	6	Bread—cat	5	Tobacco—cat	5
Whistle—boy	5	Justice—cat	5	Baby—cat	5
Woman—cat	5	Boy—cat	5	Moon—cat	5
Cold—warm	5	Light—cat	5	Scissors—cat	5
Slow—button	19	Health—cat	5	Quiet—cat	5
Wish—cat	6	Bible—cat	5	Green—cat	5
River—cat	5	Memory—cat	5	Salt—cat	5
White—rat	15	Sheep—cat	5	Street—cat	5
Beautiful—good	1	Bath—cat	5	King—cat	5
Window—wheel	19	Cottage—cat	5	Cheese—cat	5
Rough—good	9	Swift—cat	5	Blossom—cat	5
Citizen—candy	19	Blue—cat	5	Afraid—cat	5
Foot—cat	6	Hungry—cat	5		
Spider—dog	19	Priest—cat	5		

CASE No. 6006.—E. T. S. Stereotypy.

Table—cat	5	Needle—needed	5	Ocean—fresh	19
Dark—unkindness	19	Red—beautiful	2	Head—unhealthy	15
Music—beautiful	1	Sleep—beautiful	1	Stove—warmth	5
Sickness—suffering	5	Anger—needed	6	Long—length	5
Man—good	1	Carpet—needed	5	Religion—needed	2
Deep—unkindness	15	Girl—needed	5	Whiskey—needed	5
Soft—unkindness	5	High—height	5	Child—needed	5
Eating—digesting	5	Working—needed	6	Bitter—needed	5
Mountain—low	5	Sour—needed	5	Hammer—needed	5
House—small	1	Earth—needed	5	Thirsty—water	5
Black—darkness	5	Trouble—trust	10	City—pretty	6
Mutton—good	1	Soldier—needed	6	Square—honest	5
Comfort—home	5	Cabbage—needed	5	Butter—good	1
Hand—useful	1	Hard—trouble	5	Doctor—needed	5
Short—useful	5	Eagle—beautiful	6	Loud—needed	5
Fruit—healthy	5	Stomach—trouble	5	Thief—trust	5
Butterfly—beautiful	1	Stem—shoot	10	Lion—love	10
Smooth—unkindness	15	Lamp—light	5	Joy—laughter	5
Command—great	9	Dream—pleasant	1	Bed—comfortable	5
Chair—useful	1	Yellow—pretty	1	Heavy—sleepiness	2
Sweet—healthy	15	Bread—good	1	Tobacco—needed	5
Whistle—beautiful	6	Justice—needed	6	Baby—needed	5
Woman—good	1	Boy—needed	5	Moon—needed	5
Cold—unhealthy	19	Light—pretty	6	Scissors—needed	5
Slow—good	6	Health—needed	5	Quiet—pleasure	1
Wish—always	12	Bible—needed	5	Green—me	12
River—needed	6	Memory—needed	2	Salt—needed	5
White—pretty	1	Sheep—needed	5	Street—needed	5
Beautiful—trees	5	Bath—needed	5	King—needed	5
Window—needed	6	Cottage—needed	5	Cheese—needed	5
Rough—unneeded	4	Swift—needed	5	Blossom—needed	5
Citizen—needed	6	Blue—pretty	1	Afraid—nervous	5
Foot—needed	2	Hungry—food	5		
Spider—needed	5	Priest—Father	5		

CASE No. 2292.—C. M. Perseveration: numerous instances of association to preceding reaction; unclassified reactions, mostly incoherent.

Table—tree	19	Needle—thread		Ocean—turnip	18
Dark—night		Red—sew	18	Head—hair	
Music—instrument		Sleep—rest		Stove—coal	
Sickness—smoke	19	Anger—health	18	Long—wood	18
Man—woman	1	Carpet—carrots	10	Religion—lemon	10
Deep—water		Girl—eat	19	Whiskey—wheat	17
Soft—tide	18	High—horse	19	Child—rye	18
Eating—potato		Working—hay	15	Bitter—medicine	
Mountain—milk	13	Sour—cut	19	Hammer—nail	
House—clay	17	Earth—machine	19	Thirsty—beer	
Black—polish	17	Trouble—repair	18	City—cake	19
Mutton—goat		Soldier—mow	19	Square—pie	18
Comfort—cream	10	Cabbage—plant		Butter—cream	
Hand—hay	19	Hard—seed	18	Doctor—herb	19
Short—meat	19	Eagle—bird		Loud—duck	19
Fruit—pears		Stomach—egg	17	Thief—feathers	18
Butterfly—flower		Stem—join		Lion—animal	
Smooth—smell	10	Lamp—oil		Joy—peace	
Command—drink	19	Dream—burn	13	Bed—sleep	
Chair—wine	18	Yellow—gas	18	Heavy—rest	13
Sweet—honey		Bread—flour		Tobacco—chew	
Whistle—wind		Justice—drink	19	Baby—chair	19
Woman—whiskey	19	Boy—girl		Moon—sun	
Cold—fire		Light—man	9	Scissors—cut	
Slow—speed		Health—woman	1	Quiet—hair	18
Wish—go		Bible—baby	10	Green—grapes	
River—boat		Memory—want	19	Salt—bag	19
White—stem	13	Sheep—lamb		Street—stone	
Beautiful—cloak	17	Bath—water		King—cement	18
Window—drift	19	Cottage—hay	15	Cheese—money	19
Rough—storm		Swift—corn	18	Blossom—flower	
Citizen—citron	10	Blue—eat	18	Afraid—fast	19
Foot—feed	19	Hungry—ham	17		
Spider—web		Priest—pickle	18		

CASE No. 17880.—E. D. Numerous repetitions of reactions previously given; unclassified reactions, mostly incoherent; neologisms.

Table—eating		Needle—clothing	2	Ocean—help	6
Dark—night		Red—color		Head—knowing	2
Music—piano		Sleep—stopper	4	Stove—cooking	
Sickness—stopper	4	Anger—unguarded	17	Long—bank	19
Man—manly		Carpet—residence	15	Religion—church	
Deep—knowing	6	Girl—help	6	Whiskey—drink	
Soft—undoable	4	High—escorted	6	Child—help	6
Eating—oblong	19	Working—man	1	Bitter—error	10
Mountain—guide	19	Sour—form	15	Hammer—builder	2
House—residing	2	Earth—platformer	4	Thirsty—drink	
Black—dress		Trouble—unguarded	15	City—building	
Mutton—aiding	19	Soldier—sentinel	2	Square—unnerorer	4
Comfort—escorted	6	Cabbage—dinners	2	Butter—eating	
Hand—escorted	5	Hard—escorted	6	Doctor—destroyer	10
Short—unesorted	18	Eagle—newspaper	17	Loud—notoriety	17
Fruit—eating		Stomach—health		Thief—error	15
Butterfly—interfere	19	Stem—winding		Lion—lord	19
Smooth—knowing	6	Lamp—reading		Joy—escorted	6
Command—unnerorer	4	Dream—guarded	19	Bed—unesorted	15
Chair—seated		Yellow—aged	19	Heavy—unesorted	5
Sweet—durable	19	Bread—knowing	6	Tobacco—chewing	
Whistle—treated	19	Justice—bar	17	Baby—help	6
Woman—help	2	Boy—help	6	Moon—knowing	6
Cold—stopper	4	Light—advice	19	Scissors—tailor	
Slow—unknown	4	Health—doableness	4	Quiet—form	15
Wish—treated	15	Bible—church		Green—moneyed	19
River—boats		Memory—knowing	2	Salt—eating	
White—treasurer	19	Sheep—aided	15	Street—city	
Beautiful—form		Bath—stopper	4	King—adds	19
Window—outlook		Cottage—seashore		Cheese—eating	
Rough—unesorted	15	Swift—business	17	Blossom—escorted	6
Citizen—residing	2	Blue—help	6	Afraid—unguarded	15
Foot—travel		Hungry—unadded	4		
Spider—stopper	4	Priest—Rome	19		

CASE No. 6065.—A. F. Unclassified reactions, mostly incoherent; perversion: instances of association to preceding reaction and to preceding stimulus.

Table—stove	19	Needle—pins		Ocean—ship	
Dark—clear	19	Red—person	9	Head—height	
Music—calm	19	Sleep—nervous	17	Stove—people	2
Sickness—exact	19	Anger—determined	15	Long—heart	9
Man—particular	18	Carpet—floor		Religion—Catholic	15
Deep—personal	18	Girl—man	1	Whiskey—Brooklyn	19
Soft—frank	19	High—fruit	19	Child—New York	18
Eating—determined	19	Working—wear	10	Bitter—frost	18
Mountain—idea	19	Sour—sweet		Hammer—summer	19
House—street		Earth—early	10	Thirsty—fall	10
Black—water		Trouble—state	19	City—autumn	18
Mutton—ground	19	Soldier—girl	16	Square—winter	18
Comfort—country	18	Cabbage—woman	9	Butter—dairy	18
Hand—fire	19	Hard—heart		Doctor—midnight	19
Short—straight	10	Eagle—bird		Loud—forenoon	18
Fruit—flowers		Stomach—friend	19	Thief—afternoon	18
Butterfly—horn	19	Stem—tree		Lion—evening	18
Smooth—farm	19	Lamp—couch	19	Joy—sorrow	18
Command—forbidden	2	Dream—desk	19	Red—obstinate	19
Chair—bed		Yellow—table		Heavy—indifferent	19
Sweet—sugar		Bread—chair	14	Tobacco—pipe	
Whistle—noise		Justice—truth		Baby—mother	
Woman—boy		Boy—honor	18	Moon—daughter	18
Cold—house	18	Light—tails	19	Scissors—son	18
Slow—store	14	Health—care		Quiet—sister	18
Wish—work	19	Bible—book		Green—brother	18
River—sound	17	Memory—remembrance		Salt—forward	19
White—blue		Sheep—free	19	Street—proper	19
Beautiful—fair		Bath—court	19	King—vulgar	18
Window—door		Cottage—pitcher	19	Cheese—personal	15
Rough—glass	18	Swift—strong		Blossom—trees	
Citizen—dress	19	Blue—delicate	18	Afraid—fear	
Foot—exact	15	Hungry—bread			
Spider—fly		Priest—church			

CASE No. 17188.—G. B. Sound reactions; unclassified reactions, mostly incoherent.

Table—tablet	10	Needle—shoe	19	Ocean—hat	15
Dark—dot	10	Red—book		Head—broom	19
Music—Lizzie	19	Sleep—sifting	19	Stove—fan	19
Sickness—Josh	17	Anger—Freeman	19	Long—time	
Man—McMahon	10	Carpet—longing	19	Religion—Yukon	19
Deep—deaf (deaf)	10	Girl—gone	19	Whiskey—Freeman	15
Soft—sulphur	10	High—law	19	Child—Hopkins	17
Eating—itching	10	Working—back	15	Bitter—brown	19
Mountain—mouth	10	Sour—clock	19	Hammer—hands	19
House—horse	10	Earth—flower		Thirsty—thirty	18
Black—back	10	Trouble—sensibility	17	City—sure	19
Mutton—button	10	Soldier—sodder	10	Square—squire	19
Comfort—community	10	Cabbage—Cabot	10	Butter—Tam O'Shanter	10
Hand—hat	10	Hard—done	2	Doctor—Dorran	10
Short—shore	10	Eagle—time	19	Loud—law	15
Fruit—Freehoff	10	Stomach—mat	19	Thief—child	19
Butterfly—busty	8	Stem—water		Lion—dirty	19
Smooth—small	1	Lamp—florist	19	Joy—commerce	19
Command—Cummings	10	Dream—Connors	19	Red—strike	19
Chair—cherries	10	Yellow—flower		Heavy—Walden	19
Sweet—sweeten	8	Bread—water		Tobacco—Alice	19
Whistle—Walters	19	Justice—Gwynor	17	Baby—water	15
Woman—wayman	10	Boy—passion	19	Moon—handsome	19
Cold—laboratory	19	Light—life		Scissors—comet	19
Slow—slaw	10	Health—wealth		Quiet—tiger	19
Wish—wishbone		Bible—gone	15	Green—tree	
River—Ontario	17	Memory—Hans	19	Salt—salary	10
White—William	19	Sheep—pasture		Street—prunes	19
Beautiful—bureau	10	Bath—Rogan	19	King—kind	19
Window—Weldon	10	Cottage—house		Cheese—handsome	15
Rough—saw	17	Swift—swim	10	Hinsom—pretty	1
Citizen—Sendow	17	Blue—Thompson	19	Afraid—Africa	10
Foot—hoof	17	Hungry—memory	18		
Spider—web		Priest—golden	18		

CASE No. 6238.—M. H. Sound reactions; unclassified reactions, mostly incoherent.

Table—token	19	Needle—nothing	18	Ocean—open	10
Dark—dye	17	Red—rose	10	Head—heart	10
Music—meat	10	Sleep—should	12	Stove—steel	10
Sickness—sorrow	10	Anger—after	10	Long—little	15
Man—mother	17	Carpet—cat	10	Religion—right	10
Deep—dark	10	Girl—God	19	Whiskey—when	12
Soft—silk	10	High—heaven	10	Child—chimney	19
Eating—elephant	19	Working—will	2	Bitter—both	19
Mountain—many	10	Sour—sweet	10	Hammer—heart	15
House—home	10	Earth—eaten	14	Thirsty—think	9
Black—brown	10	Trouble—tea	10	City—church	17
Mutton—men	10	Soldier—sailor	10	Square—swift	19
Comfort—cat	10	Cabbage—cobweb	19	Butter—bread	10
Hand—hat	10	Hard—haven't	12	Doctor—debtor	10
Short—shift	10	Eagle—eaten	15	Loud—loaf	19
Fruit—free	10	Stomach—sat	10	Thief—theatre	10
Butterfly—baby	19	Stem—should	12	Lion—liar	10
Smooth—soft	10	Lamp—little	19	Joy—jam	19
Command—cat	10	Dream—did	12	Bed—broom	19
Chair—comfort	10	Yellow—you	10	Heavy—hard	10
Sweet—sugar	19	Bread—butter	10	Tobacco—Tom	19
Whistle—wine	19	Justice—Jesus	10	Baby—brother	17
Woman—when	10	Boy—baby	10	Moon—men	2
Cold—cat	15	Light—love	14	Scissors—shift	10
Slow—short	12	Health—heaven	19	Quiet—quilt	10
Wish—when	12	Bible—bitch	19	Green—grass	10
River—Rhine	10	Memory—man	1	Salt—said	19
White—when	10	Sheep—shepherd	10	Street—Stevens	10
Beautiful—baby	10	Bath—both	10	King—kite	19
Window—wide	10	Cottage—cat	10	Cheese—cat	15
Rough—red	19	Swift—said	19	Blossom—bad	9
Citizen—company	19	Blue—bad	9	Afraid—anger	9
Foot—feeling	19	Hungry—haven't	12		
Spider—speck	10	Priest—Pope	10		

CASE No. 12720.—J. B. Unclassified reactions, many of which are probably due to distraction; some stereotypy. Note on test record states: "Influenced by sensory impressions, but gave good attention to each stimulus word. Had some difficulty in limiting his response to one word, but made all possible effort to comply with every request. On one occasion he was asked to react with his eyes closed, but was unable, under the unnatural conditions, to respond with one word."

Table—floor	19	Needle—name	19	Ocean—flag	15
Dark—light	19	Red—sunlight	19	Head—cabbage	10
Music—shoe	19	Sleep—flag	18	Stove—rivet	17
Sickness—well	10	Anger—slant	19	Long—floor	19
Man—boy	10	Carpet—rip	19	Religion—priest	10
Deep—sea	10	Girl—lady	19	Whiskey—tin	19
Soft—soap	10	High—stripe	19	Child—shadow	6
Eating—tea	17	Working—steam	17	Bitter—black	15
Mountain—forest	17	Sour—handkerchief	19	Hammer—buttons	15
House—horse	10	Earth—ground	10	Thirsty—shadow	6
Black—sill	19	Trouble—insect	19	City—back	15
Mutton—tablecloth	17	Soldier—army	10	Square—oval	10
Comfort—black	16	Cabbage—sill	15	Butter—table	10
Hand—fingers	10	Hard—washstand	19	Doctor—doorway	10
Short—wrist	13	Eagle—blue	15	Loud—shadow	6
Fruit—soup	17	Stomach—tap	19	Thief—butter	16
Butterfly—grape	13	Stem—sill	15	Lion—difference	19
Smooth—coat	10	Lamp—back	19	Joy—ink	15
Command—vest	18	Dream—shadow	2	Bed—butter	15
Chair—pillow	19	Yellow—blanket	19	Heavy—shadow	6
Sweet—brick	19	Bread—horizontal	19	Tobacco—wood	13
Whistle—knuckles	19	Justice—ink	19	Baby—wall	15
Woman—wall	19	Boy—taste	19	Moon—lightning	17
Cold—eating	19	Light—yellow	10	Scissors—book	15
Slow—swift	10	Health—book	19	Quiet—yellow	15
Wish—knob	19	Bible—Joseph	17	Green—sole	19
River—pad	19	Memory—Joe	18	Salt—ink	15
White—book	19	Sheep—pillow	19	Street—sides	19
Beautiful—shadow	6	Bath—Mott	19	King—stripes	19
Window—stockings	19	Cottage—globe	19	Cheese—butter	10
Rough—stand	19	Swift—continue	19	Blossom—trees	10
Citizen—blue	19	Blue—notice	19	Afraid—boy	10
Foot—brass	19	Hungry—Josephine	19		
Spider—shoelace	19	Priest—sixteen	12		

CASE No. 5374.—J. F. Perseveration; some stereotypy; sound reactions; unclassified reactions many of which are probably due to distraction. Note on test record states: "Understood what was expected, but could not be induced to give much attention to the stimulus words; sat facing a window, and showed a strong tendency to merely name objects in sight. Reaction time very short, in some cases so short that it is doubtful if he recognized the stimulus word at all."

Table—God	19
Dark—angel	18
Music—bird	18
Sickness—woman	9
Man—male	4
Deep—dove	19
Soft—dog	19
Eating—horse	18
Mountain—mule	18
House—dog	18
Black—rabbit	18
Mutton—hen	18
Comfort—dog	15
Hand—clock	15
Short—myself	18
Fruit—post	19
Butterfly—bricks	19
Smooth—glass	19
Command—sand	10
Chair—leaf	19
Sweet—wood	19
Whistle—earth	19
Woman—grass	14
Cold—mustard	19
Slow—kale	19
Wish—lampsquob	4
River—ten	12
White—rock	17
Beautiful—water	17
Window—scene	12
Rough—been	12
Citizen—house	19
Foot—stable	2
Spider—horse	18

Needle—pin	18
Red—cushion	18
Sleep—black	18
Anger—white	14
Carpet—vingency	4
Girl—noodles	19
High—macaroni	18
Working—tomatoes	18
Sour—asparagus	18
Earth—oakry	4
Trouble—peas	19
Soldier—beans	18
Cabbage—greens	18
Hard—cow	19
Eagle—robin	18
Stomach—hawk	18
Stem—fishes	19
Lamp—whale	18
Dream—shark	18
Yellow—crabs	18
Bread—red	10
Justice—jam	19
Boy—be	2
Light—girl	18
Health—filth	10
Bible—book	1
Memory—bad	1
Sheep—dat	4
Bath—oval	19
Cottage—nurse	19
Swift—begin	19
Blue—joy	19
Hungry—wonder	10
Priest—apostle	17

Ocean—preacher	18
Head—dead	10
Stove—store	10
Long—lone	10
Religion—world	19
Whiskey—whisper	10
Child—gule	4
Bitter—Rugby	19
Hammer—ball	18
Thirsty—sun	19
City—Christ	10
Square—Jesus	18
Butter—Joe	19
Doctor—John	17
Loud—Luke	18
Thief—St. Matthew	18
Lion—lie	10
Joy—George	10
Bed—Beth	10
Heavy—tither	4
Tobacco—iron	18
Baby—blade	10
Moon—stars	19
Scissors—sun	18
Quiet—wired	10
Green—mean	10
Salt—Lou	19
Street—vault	19
King—sepulchre	18
Cheese—Presbyterian	19
Blossom—Baptist	18
Afraid—Methodist	18

CASE No. 1431.—A. L. Sound reactions; particles; unclassified reactions, mostly incoherent.

Table—ammitting	4
Dark—cat	12
Music—hello	12
Sickness—spelling	19
Man—then	12
Deep—heap	10
Soft—deep	7
Eating—people	1
Mountain—stirling	19
House—pat	19
Black—and	12
Mutton—it	12
Comfort—herself	12
Hand—self	19
Short—length	19
Fruit—long	13
Butterfly—quick	19
Smooth—edges	19
Command—first	17
Chair—exact	19
Sweet—nicest	2
Whistle—thistle	10
Woman—pins	19
Cold—waving	19
Slow—swift	19
Wish—choice	17
River—never	10
White—black	19
Beautiful—much	19
Window—such	19
Rough—exact	15
Citizen—just	19
Foot—root	10
Spider—diving	19

Needle—Hercules	19
Red—green	19
Sleep—deep	19
Anger—grief	19
Carpet—cheap	19
Girl—ink	19
High—I	10
Working—loafing	10
Sour—hour	10
Earth—hurt	10
Trouble—bubble	10
Soldier—yes	12
Cabbage—garbage	10
Hard—hitting	17
Eagle—fitting	19
Stomach—pitting	19
Stem—condemned	10
Lamp—stamp	10
Dream—stained	19
Yellow—purple	19
Bread—pimple	19
Justice—suit	17
Boy—ahoy	12
Light—night	19
Health—wealth	19
Bible—indeed	12
Memory—remembering	19
Sheep—cow	19
Bath—sponge	1
Cottage—people	1
Swift—left	10
Blue—shift	19
Hungry—property	19
Priest—judge	2

Ocean—river	19
Head—sea	18
Stove—Venus	19
Long—hog	19
Religion—pigeon	10
Whiskey—gin	19
Child—thing	19
Bitter—better	10
Hammer—happy	9
Thirsty—whiskey	17
City—fitting	10
Square—round	19
Butter—shut	10
Doctor—exercise	19
Loud—accounts	10
Thief—endless	19
Lion—tiger	19
Joy—fast	19
Bed—grass	19
Heavy—heaving	10
Tobacco—queen	19
Baby—water	19
Moon—room	19
Scissors—pants	17
Quiet—razor	18
Green—steel	18
Salt—sharp	19
Street—fence	19
King—bring	10
Cheese—eggs	19
Blossom—see	19
Afraid—awaiting	19

CASE No. 6251.—C. D. Some stereotypy; particles; unclassified reactions, mostly incoherent.

Table—doctor	19	Needle—ether	19	Ocean—land	
Dark—nigger	17	Red—pot		Head—millionaire	19
Music—violin		Sleep—wake		Stove—twenty-five	12
Sickness—whores	19	Anger—mad		Long—thirty-four	12
Man—Mulcane	17	Carpet—pretty	1	Religion—churches	
Deep—deaf	19	Girl—boy		Whiskey—plenty	6
Soft—hearing	18	High—Heidel	10	Child—baby	
Eating—pillow	18	Working—never		Bitter—sorrow	
Mountain—sight	19	Sour—sweet		Hammer—court	19
House—pure	19	Earth—bride	19	Thirsty—blood	11
Black—nigger		Trouble—mischief		City—this	12
Mutton—plenty	6	Soldier—war		Square—I	12
Comfort—middle	19	Cabbage—head		Butter—plenty	6
Hand—left	17	Hard—never	6	Doctor—millionaire	15
Short—one	12	Eagle—fly		Loud—tell	17
Fruit—up	12	Stomach—go	19	Thief—rich	19
Butterfly—bird		Stem—study	10	Lion—west	19
Smooth—never	6	Lamp—light		Joy—ever	12
Command—commodore	10	Dream—behave	19	Bed—Constance	15
Chair—seat		Yellow—false	19	Heavy—fine	9
Sweet—sugar		Bread—plenty	6	Tobacco—back	10
Whistle—highest	19	Justice—just		Baby—millionaire	15
Woman—Constance	17	Boy—come	19	Moon—always	12
Cold—temperature		Light—Davie	19	Scissors—large	9
Slow—walk		Health—wealth		Quiet—stay	19
Wish—wishbone		Bible—Constance	15	Green—flowers	
River—love	19	Memory—fine	1	Salt—perfume	18
White—Dr. White	17	Sheep—plenty	6	Street—floor	19
Beautiful—pretty	1	Bath—bother	10	King—Haaken	19
Window—dove	19	Cottage—mansion		Cheese—kiss	19
Rough—fine	1	Swift—hurry		Blossom—flower	
Citizen—United States		Blue—flowers	2	Afraid—never	
Foot—left	15	Hungry—never			
Spider—web		Priest—highest	2		

CASE No. 17607.—P. D. Test record somewhat approaching the normal: 24 individual reactions, of which 16 are unclassified, mostly “far fetched” and not strictly incoherent. Patient is a well-marked case of dementia præcox but only moderately deteriorated; works well at the hospital.

Table—oak		Needle—steel		Ocean—Atlantic	
Dark—brown		Red—color		Head—stature	15
Music—falsetto	17	Sleep—slumber		Stove—iron	
Sickness—typhoid		Anger—aroused		Long—inches	17
Man—gender	19	Carpet—texture	2	Religion—creed	
Deep—feet	19	Girl—female		Whiskey—hops	
Soft—feeling		High—up		Child—neuter	19
Eating—partaking	19	Working—doing		Bitter—horehound	17
Mountain—hunter	19	Sour—lemon		Hammer—steel	
House—dwelling		Earth—dirt		Thirsty—degree	15
Black—color		Trouble—distress		City—population	
Mutton—sheep		Soldier—uniform		Square—sides	
Comfort—coziness	2	Cabbage—crop	19	Butter—cream	
Hand—anatomy		Hard—metal		Doctor—physician	
Short—stature		Eagle—bird		Loud—noise	
Fruit—apples		Stomach—anatomy		Thief—characterization	19
Butterfly—insect		Stem—pipe		Lion—menagerie	
Smooth—plain		Lamp—glass		Joy—openness	19
Command—order		Dream—atmosphere	19	Bed—furniture	
Chair—furniture		Yellow—color		Heavy—weight	
Sweet—sugar		Bread—flour		Tobacco—plant	
Whistle—steam		Justice—equality		Baby—egg	19
Woman—sex		Boy—male		Moon—astronomy	
Cold—degree		Light—sun		Scissors—blades	
Slow—speedless		Health—color		Quiet—noiseless	
Wish—expression		Bible—nonsense	19	Green—Paris	11
River—Amazon		Memory—retentiveness	2	Salt—crystal	17
White—pulp	17	Sheep—quadruped		Street—lane	
Beautiful—description		Bath—water		King—usurper	19
Window—opaque	19	Cottage—stories	19	Cheese—milk	
Rough—uncouth		Swift—speed		Blossom—bud	
Citizen—qualification	19	Blue—navy		Afraid—scared	
Foot—anatomy		Hungry—appetite			
Spider—bug		Priest—uniform	15		

CASE No. 5537.—J. H. Test record approaching the normal: 21 individual reactions, 8 classed as normal, 1 non-specific, 12 unclassified, mostly "far fetched" but not strictly incoherent. Well-marked dementia præcox, but of recent origin and but slight deterioration.

Table—eat	Needle—sew	Ocean—commerce
Dark—night	Red—marine	Head—thought
Music—pleasure	Sleep—repose	Stove—iron
Sickness—suffering	Anger—assault	Long—distance
Man—farmer	Carpet—cloth	Religion—belief
Deep—low	Girl—sister	Whiskey—alcohol
Soft—hard	High—above	Child—parent
Eating—life	Working—labor	Bitter—taste
Mountain—earth	Sour—bitter	Hammer—trade
House—dwelling	Earth—farm	Thirsty—beverage
Black—color	Trouble—fight	City—position
Mutton—food	Soldier—duty	Square—block
Comfort—rest	Cabbage—vegetable	Butter—yellow
Hand—limb	Hard—stone	Doctor—profession
Short—small	Eagle—large	Loud—fiddle
Fruit—nourishing	Stomach—body	Thief—police
Butterfly—flower	Stem—leaf	Lion—Africa
Smooth—straight	Lamp—light	Joy—sensation
Command—obey	Dream—unconsciousness	Bed—rest
Chair—furniture	Yellow—flag	Heavy—burden
Sweet—palate	Bread—hunger	Tobacco—store
Whistle—noise	Justice—freedom	Baby—care
Woman—marriage	Boy—school	Moon—atmosphere
Cold—indisposed	Light—electricity	Scissors—dressmaker
Slow—weary	Health—business	Quiet—lonesome
Wish—work	Bible—religion	Green—color
River—lug	Memory—brain	Salt—house
White—sheets	Sheep—pasture	Street—neighborhood
Beautiful—rare	Bath—clean	King—beast
Window—ventilation	Cottage—property	Cheese—merchant
Rough—uneven	Swift—current	Blossom—flowers
Citizen—public	Blue—uniform	Afraid—train
Foot—walk	Hungry—appetite	
Spider—web	Priest—church	

CASE No. 6190.—L. L. Test record not distinguishable from normal. Case of recent onset, with little, if any deterioration.

Table—chair	Needle—cotton	Ocean—ships
Dark—light	Red—brick	Head—mind
Music—note	Sleep—night	Stove—chimney
Sickness—health	Anger—joy	Long—wind
Man—woman	Carpet—cloth	Religion—God
Deep—shallow	Girl—mouth	Whiskey—alcohol
Soft—hard	High—low	Child—mother
Eating—breakfast	Working—idle	Bitter—fruit
Mountain—rock	Sour—vinegar	Hammer—nails
House—chimney	Earth—round	Thirsty—water
Black—white	Trouble—sickness	City—cars
Mutton—animal	Soldier—gun	Square—angles
Comfort—chair	Cabbage—garden	Butter—cow
Hand—foot	Hard—rock	Doctor—sickness
Short—long	Eagle—fly	Loud—noise
Fruit—ripe	Stomach—man	Thief—sinner
Butterfly—fields	Stem—watch	Lion—jungle
Smooth—hard	Lamp—oil	Joy—gladness
Command—army	Dream—sleep	Bed—pillow
Chair—straw	Yellow—sunflower	Heavy—iron
Sweet—bitter	Bread—butter	Tobacco—leaf
Whistle—engine	Justice—peace	Baby—mother
Woman—man	Boy—girl	Moon—stars
Cold—hot	Light—window	Scissors—thread
Slow—fast	Health—man	Quiet—room
Wish—desire	Bible—God	Green—grass
River—brook	Memory—mind	Salt—ocean
White—black	Sheep—pasture	Street—men
Beautiful—girl	Bath—water	King—queen
Window—glass	Cottage—trees	Cheese—butter
Rough—smooth	Swift—engine	Blossom—bud
Citizen—city	Blue—sky	Afraid—coward
Foot—ankle	Hungry—bread	
Spider—web	Priest—church	

CASE No. 1278.—B. B. Test record not distinguishable from normal. Case of several years standing, but showing almost complete remission of all symptoms.

Table—chair	Needle—thread	Ocean—sea
Dark—day	Red—white	Head—body
Music—instrument	Sleep—slumber	Stove—iron
Sickness—health	Anger—kindness	Long—length
Man—woman 1	Carpet—mat	Religion—too 12
Deep—thoughts 1	Girl—boy	Whiskey—drink
Soft—apple	High—short	Child—baby
Eating—food	Working—idle	Bitter—taste
Mountain—rock	Sour—sweet	Hammer—nails
House—building	Earth—land	Thirsty—drink
Black—dark	Trouble—sorrow	City—town
Mutton—meat	Soldier—hero	Square—man 1
Comfort—home	Cabbage—turnip	Butter—bread
Hand—from 12	Hard—soft	Doctor—patient
Short—stout	Eagle—owl	Loud—howl 17
Fruit—eating	Stomach—head	Thief—steal
Butterfly—bird	Stem—pipe	Lion—bear
Smooth—glossy	Lamp—cover 19	Joy—happiness 1
Command—general	Dream—sleep	Bed—blanket
Chair—floor	Yellow—brown	Heavy—weight
Sweet—taste	Bread—biscuit	Tobacco—smoke
Whistle—tune	Justice—peaceful 2	Baby—cradle
Woman—man 1	Boy—girl	Moon—sun
Cold—chilly	Light—dark	Scissors—thimble
Slow—fast	Health—well	Quiet—stillness
Wish—something	Bible—book	Green—plaid 17
River—water	Memory—lost 2	Salt—pepper
White—black	Sheep—animal	Street—sidewalk
Beautiful—pretty 1	Bath—wash	King—queen
Window—pane	Cottage—house	Cheese—crackers
Rough—ugly	Swift—movements 2	Blossom—leaf
Citizen—papers	Blue—red	Afraid—frightened
Foot—shoe	Hungry—thirst	
Spider—bug	Priest—minister	

PARANOID CONDITIONS.

The clinical group of psychoses included under the designation paranoic conditions is far from being homogeneous. We have here cases that are more or less closely allied to the paranoic form of dementia præcox, other cases that are apparently dependent upon involutional changes (Kraepelin's *praesemiler Beeinträchtigungswahn*), still other cases that are characterized by absence or at least delay of mental deterioration, etc.

In some of these cases disturbance of the flow of utterance is not observed, and the test records obtained from them present no striking abnormalities. Distinctly pathological records are obtained mainly from those cases which clinically resemble dementia præcox; in these records the nature of the pathological reactions would seem to indicate that the diagnosis of dementia præcox would be more justifiable than that of paranoic condition.

The following test records will serve to illustrate the types of reactions met with in this group of psychoses:

CASE No. 3039.—F. A. Normal record.

Table—purpose	19	Needle—sewing		Ocean—large	
Dark—obscure		Red—color		Head—trunk	
Music—pleasant	1	Sleep—bed		Stove—fire	
Sickness—confinement	17	Anger—cross		Long—distance	
Man—twenty-one	12	Carpet—floor		Religion—Christianity	
Deep—down		Girl—young		Whiskey—drinkable	
Soft—smooth		High—up		Child—young	
Eating—nourishment		Working—labor		Bitter—bad	
Mountain—high		Sour—unpleasant	1	Hammer—knock	
House—living		Earth—dirt		Thirsty—dry	
Black—dark		Trouble—worryment		City—government	
Mutton—eating		Soldier—fight		Square—block	
Comfort—pleasant	1	Cabbage—vegetable		Butter—eat	
Hand—limb		Hard—tough		Doctor—cure	
Short—low		Eagle—bird		Loud—noisy	
Fruit—eat		Stomach—anatomy		Thief—steal	
Butterfly—miller		Stem—growth		Lion—animal	
Smooth—soft		Lamp—burn		Joy—pleasant	
Command—obey		Dream—restlessness		Bed—laying	
Chair—sitting		Yellow—color		Heavy—weighty	
Sweet—tasting		Bread—eat		Tobacco—smoking	
Whistle—noise		Justice—right		Baby—new-born	
Woman—female		Boy—young		Moon—planet	
Cold—unpleasant	1	Light—see		Scissors—cutting	
Slow—easy		Health—well		Quiet—easy	
Wish—want		Bible—religion		Green—color	
River—water		Memory—thoughtful		Salt—preservative	
White—colorless		Sheep—animal		Street—lane	
Beautiful—handsome		Bath—wash		King—monarch	
Window—glass		Cottage—house		Cheese—eatable	
Rough—unpleasant	1	Swift—fast		Blossom—budding	
Citizen—vote		Blue—color		Afraid—fear	
Foot—limb		Hungry—appetite			
Spider—insect		Priest—Christian	17		

CASE No. 5803.—D. E. D. Slight tendency to give sound reactions.

Table—tree	19	Needle—pin		Ocean—river	
Dark—bright		Red—yellow		Head—neck	
Music—song		Sleep—slumber		Stove—covers	
Sickness—health	1	Anger—amiable		Long—short	
Man—woman		Carpet—mat		Religion—optional	
Deep—shallow		Girl—boy		Whiskey—wine	
Soft—hard		High—hill		Child—baby	
Eating—digesting		Working—playing		Bitter—sweet	
Mountain—hill		Sour—sweet		Hammer—gimlet	
House—horse	10	Earth—land		Thirsty—drink	
Black—red		Trouble—tranquillity	10	City—town	
Mutton—tallow		Soldier—boy		Square—compass	
Comfort—wealth		Cabbage—plant		Butter—butterfly	
Hand—arm		Hard—easy		Doctor—lawyer	
Short—long		Eagle—bird		Loud—lord	
Fruit—plate	17	Stomach—bowels		Thief—beggar	
Butterfly—net		Stem—head		Lion—lionesse	
Smooth—surface		Lamp—chimney		Joy—sorrow	
Command—obey		Dream—myth	17	Bed—couch	
Chair—table		Yellow—blue		Heavy—light	
Sweet—sour		Bread—biscuit		Tobacco—cigarette	
Whistle—call		Justice—balance	17	Baby—child	
Woman—lady		Boy—girl		Moon—stars	
Cold—lukewarm	19	Light—gray	17	Scissors—knife	
Slow—not	12	Health—wealth		Quiet—quilt	
Wish—receive		Bible—prayerbook		Green—envy	
River—lake		Memory—understanding		Salt—sewing	
White—black		Sheep—lamb		Street—lane	
Beautiful—graceful		Bath—swim		King—queen	
Window—door		Cottage—house		Cheese—cracker	
Rough—smooth		Swift—slow		Blossom—flower	
Citizen—city		Blue—yellow		Afraid—courageous	
Foot—leg		Hungry—eat			
Spider—soap	10	Priest—bishop			

CASE No. 2133.—M. F. Unclassified reactions, mostly "far fetched" or incoherent; perseveration.

Table—eat	Needle—Carrie	19	Ocean—spring	15
Dark—night	Red—pink		Head—canary	19
Music—sing	Sleep—awake		Stove—board	
Sickness—sadness	Anger—jolly	19	Long—dishes	18
Man—home	Carpet—curtains		Religion—piano	19
Deep—light	Girl—yellow	19	Whiskey—home	15
Soft—sleep	High—green	14	Child—baby	
Eating—drink	Working—bed	19	Bitter—shoes	19
Mountain—hills	Sour—dishes	19	Hammer—tacks	
House—home	Earth—grapes	13	Thirsty—longing	
Black—stove	Trouble—work	1	City—flushing	17
Mutton—lamb	Soldier—sing	15	Square—store	10
Comfort—pleasure	Cabbage—potatoes	15	Butter—butcher	10
Hand—write	Hard—sewing	17	Doctor—hat	10
Short—short—cake	Eagle—daisy	19	Loud—chair	15
Fruit—grapes	Stomach—flowers	18	Thief—picture	19
Butterfly—butter	Stem—vine		Lion—house	18
Smooth—ironing	Lamp—flatiron	19	Joy—gladness	
Command—correct	Dream—sleep		Bed—sleep	
Chair—see	Yellow—awake	18	Heavy—sick	2
Sweet—apples	Bread—children		Tobacco—album	19
Whistle—happiness	Justice—dresses	14	Baby—basket	17
Woman—girl	Boy—mother		Moon—stars	
Cold—warm	Light—dark		Scissors—knife	
Slow—fast	Health—wealth		Quiet—spoon	18
Wish—like	Bible—commands	2	Green—scar	19
River—water	Memory—black	18	Salt—pepper	
White—blue	Sheep—chickens	17	Street—sugar	18
Beautiful—red	Bath—carpet	19	King—blackening	19
Window—light	Cottage—worsted	14	Cheese—meat	
Rough—easy	Swift—silk	18	Blossom—flowers	
Citizen—spring	Blue—cotton	18	Afraid—red	18
Foot—run	Hungry—chair	19		
Spider—fly	Priest—church			

CASE No. 4569.—L. K. Marked stereotypy; unclassified reactions, mostly incoherent.

Table—fruit	Needle—house	6	Ocean—God	6
Dark—light	Red—colors		Head—servant	6
Music—pleasure	Sleep—God	6	Stove—house	
Sickness—illness	Anger—God	5	Long—God	6
Man—parent	Carpet—house	5	Religion—servant	6
Deep—verse	Girl—God	6	Whiskey—doctor	15
Soft—fruit	High—house		Child—house	6
Eating—illness	Working—parent	6	Bitter—taste	
Mountain—parent	Sour—desire	15	Hammer—household	19
House—privilege	Earth—God	6	Thirsty—drink	
Black—colors	Trouble—God	5	City—God	6
Mutton—parent	Soldier—house	6	Square—touch	19
Comfort—family	Cabbage—desire	15	Butter—taste	
Hand—comfort	Hard—vegetable		Doctor—servant	6
Short—parent	Eagle—animal	9	Loud—thought	9
Fruit—parent	Stomach—doctor		Thief—slave	19
Butterfly—insect	Stem—growth		Lion—animal	
Smooth—surface	Lamp—house		Joy—pleasure	1
Command—privilege	Dream—God	6	Bed—household	16
Chair—house	Yellow—color		Heavy—weight	
Sweet—dairy	Bread—God	6	Tobacco—doctor	15
Whistle—nature	Justice—fright	19	Baby—care	
Woman—parent	Boy—parent	6	Moon—heavens	
Cold—house	Light—God	6	Scissors—household	15
Slow—light	Health—God	5	Quiet—nerve	19
Wish—desire	Bible—teachings		Green—substance	
River—house	Memory—teaching	2	Salt—taste	
White—auspicion	Sheep—God	6	Street—heavens	15
Beautiful—house	Bath—cleanness	6	King—servant	6
Window—light	Cottage—home		Cheese—taste	
Rough—surface	Swift—fear	19	Blossom—sight	19
Citizen—parent	Blue—color		Afraid—fear	
Foot—house	Hungry—appetite			
Spider—insect	Priest—servant			

CASE No. 6164.—L. E. Remarkably persistent tendency to give sound reactions; numerous sound neologisms; no reactions given in response to some of the stimulus words on the ground that she had "no word to match."

Table—witchhazel	10	Needle—dreadle	3	Ocean—notion	10
Dark—frog	19	Red—shred	10	Head—shred	10
Music—lessons	2	Sleep—seef	3	Stove—above	3
Sickness—badness	2	Anger—		Long—song	10
Man—wife		Carpet—shloppet	3	Religion—switching	19
Deep—seef	4	Girl—shirl	3	Whiskey—chiston	4
Soft—shoft	3	High—fie	10	Child—kile	3
Eating—feeding	10	Working—shirking	3	Bitter—shitter	3
Mountain—sounding	10	Sour—bower	10	Hammer—lemon	18
House—shmouse	3	Earth—world		Thirsty—firsten	3
Black—fake	19	Trouble—shuttle	19	City—	
Mutton—shutton	3	Soldier—polster	3	Square—birds	19
Comfort—somfort	3	Cabbage—shermes	4	Butter—shudder	10
Hand—land	10	Hard—shward	3	Doctor—shooter	3
Short—court	10	Eagle—		Loud—souse	10
Fruit—shrewd	10	Stomach—		Thief—sheaf	10
Butterfly—shuddergergy	3	Stern—lamp	19	Lion—Zion	10
Smooth—slude	3	Lamp—sant	4	Joy—bloy	3
Command—noman	3	Dream—lean	3	Bed—wading	19
Chair—sash	19	Yellow—cherry	19	Heavy—shleavy	3
Sweet—leaf	19	Bread—dread	10	Tobacco—confecker	4
Whistle—noshissel	3	Justice—chestnuts	10	Baby—savey	3
Woman—lemon	19	Boy—		Moon—shoon	3
Cold—shoal	10	Light—shwife	3	Scissors—	
Slow—snow	10	Health—felt	2	Quiet—shiet	3
Wish—dish		Bible—		Green—sheel	4
River—liberty	10	Memory—		Salt—shawit	3
White—size	10	Sheep—sheet	10	Street—freet	3
Beautiful—		Bath—scab	19	King—sing	10
Window—Hilda	19	Cottage—foppach	3	Cheese—seefs	4
Rough—shoft	3	Swift—shift	10	Blossom—pleasant	9
Citizen—shiffizen	3	Blue—shoe	10	Afraid—shraid	3
Foot—shoot	10	Hungry—angry			
Spider—shider	3	Priest—sheaf	19		

CASE No. 3606.—F. W. Neologisms; some particles; many unclassified reactions, mostly incoherent.

Table—pleasure	9	Needle—pleasant	9	Ocean—apology	19
Dark—air	19	Red—permit	19	Head—trinity	19
Music—walking	19	Sleep—indeed	12	Stove—compartment	19
Sickness—gloves	19	Anger—benevolence	19	Long—terminal	19
Man—fields	19	Carpet—disorder	19	Religion—abundant	19
Deep—courtesy	19	Girl—caterer	19	Whiskey—approvement	4
Soft—spoons	19	High—aside	10	Child—anger	15
Eating—oranges		Working—among	12	Bitter—courageous	19
Mountain—ice	17	Sour—destroy	19	Hammer—correction	19
House—paintings	2	Earth—confusion	19	Thirsty—afterwards	12
Black—blue		Trouble—frivolous	19	City—cataract	19
Mutton—hemisphere	19	Soldier—air	15	Square—plenty	19
Comfort—flowers	19	Cabbage—temptation	19	Butter—accost	19
Hand—sawdust	19	Hard—among	12	Doctor—southern	19
Short—peanuts	19	Eagle—quality	19	Loud—triangular	19
Fruit—autoharp	19	Stomach—debausteur	4	Thief—cannery	19
Butterfly—disease	19	Stern—counteract	19	Lion—practice	19
Smooth—ice		Lamp—testament	19	Joy—summons	19
Command—botheration	19	Dream—connexus	4	Bed—ayron	4
Chair—tea	19	Yellow—division	19	Heavy—olenthogolia	4
Sweet—arrangement	19	Bread—atherey	4	Tobacco—abundant	15
Whistle—steadfast	19	Justice—anger	19	Baby—parenthus	4
Woman—flowers	15	Boy—quality	15	Moon—otherwise	12
Cold—grandeur	19	Light—among	12	Scissors—cartridge	19
Slow—present	19	Health—frivolous	15	Quiet—outside	12
Wish—mania	19	Bible—permit	15	Green—abounty	4
River—courtesy	15	Memory—usual	19	Salt—calony	4
White—ink	17	Sheep—astray		Street—abyes	19
Beautiful—flowers		Bath—conscientious	19	King—caverny	4
Window—air		Cottage—texalous	4	Cheese—perplex	19
Rough—enjoyment	19	Swift—patience	19	Blossom—cartridge	15
Citizen—queer	19	Blue—community	19	Afraid—stubborn	19
Foot—hated	19	Hungry—confusion	15		
Spider—carousy	4	Priest—second	19		

EPILEPSY.

Most of the cases of epilepsy in our collection show advanced dementia and in some the clinical history would indicate also original mental inferiority, that is to say, imbecility or feeble-mindedness.

In these cases the dominant characteristic, so far as shown in the test records, seems to be a narrowing of the mental horizon manifested firstly by a tendency to repeat many times one or another word, and secondly by an abnormally pronounced tendency to make use of non-specific reactions or particles of speech. Occasionally other abnormalities are noted, such as perseveration or distraction.

We submit here copies of some test records.

CASE No. 5410.—W. T. K. Repetition of words previously given; non-specific reactions.

Table—article	1	Needle—article	1	Ocean—body	
Dark—light		Red—color		Head—member	
Music—tone		Sleep—rest		Stove—article	1
Sickness—ill		Anger—condition	6	Long—distance	
Man—person	1	Carpet—covering		Religion—profession	
Deep—distant	2	Girl—female		Whiskey—liquid	
Soft—condition	6	High—distance		Child—person	1
Eating—chew		Working—occupation		Bitter—condition	6
Mountain—high		Sour—condition	6	Hammer—article	1
House—abode		Earth—planet		Thirsty—condition	6
Black—color		Trouble—condition	6	City—place	
Mutton—meat		Soldier—member	6	Square—honest	
Comfort—peace		Cabbage—vegetable		Butter—article	6
Hand—limb		Hard—condition	6	Doctor—profession	
Short—distance		Eagle—animal		Loud—sound	
Fruit—result		Stomach—member		Thief—position	15
Butterfly—animal		Stem—branch		Lion—animal	
Smooth—plain		Lamp—article	1	Joy—pleasant	1
Command—order		Dream—thinking	1	Bed—article	6
Chair—seat		Yellow—shade		Heavy—weight	
Sweet—pleasant	1	Bread—article	6	Tobacco—plant	
Whistle—sound		Justice—position	19	Baby—person	1
Woman—female		Boy—male		Moon—planet	
Cold—chilly		Light—clear		Scissors—article	1
Slow—pace		Health—condition		Quiet—peaceful	
Wish—desire		Bible—book		Green—shade	
River—body		Memory—condition	6	Salt—article	1
White—clear		Sheep—animal		Street—place	
Beautiful—grand		Bath—position	15	King—ruler	
Window—place	13	Cottage—house		Cheese—article	6
Rough—unsmooth	4	Swift—fast		Blossom—plant	
Citizen—member		Blue—color		Afraid—fear	
Foot—member		Hungry—condition	6		
Spider—animal		Priest—office			

CASE No. 2208.—J. A. Repetition of words previously given; non-specific reactions.

Table—wood	13	Needle—clothes		Ocean—deep	
Dark—chairs	14	Red—blood		Head—bad	9
Music—wood	14	Sleep—bed		Stove—wood	
Sickness—dropsy	17	Anger—angry		Long—trees	2
Man—body		Carpet—stores	10	Religion—form	19
Deep—well		Girl—ladies	2	Whiskey—apples	17
Soft—lady	19	High—mountain		Child—people	1
Eating—man	6	Working—people	6	Bitter—apples	
Mountain—hills		Sour—fruit		Hammer—axe	
House—barns	2	Earth—clay		Thirsty—drink	
Black—horse		Trouble—bad	1	City—towns	
Mutton—sheep		Soldier—man	1	Square—measurement	
Comfort—poison	19	Cabbage—field		Butter—cows	
Hand—man	1	Hard—case	19	Doctor—person	1
Short—people	1	Eagle—bird		Loud—people	1
Fruit—trees		Stomach—man	1	Thief—person	1
Butterfly—tree		Stem—pipe		Lion—animal	
Smooth—people	6	Lamp—fire		Joy—person	9
Command—general		Dream—bad	1	Bed—man	6
Chair—hands	16	Yellow—chair	15	Heavy—mountain	
Sweet—fruit		Bread—rye		Tobacco—growing	
Whistle—man	1	Justice—right		Baby—person	1
Woman—people	1	Boy—bad	1	Moon—people	6
Cold—ice		Light—ship	19	Scissors—cutting	
Slow—people	6	Health—pig	19	Quiet—mind	
Wish—dead	19	Bible—man	6	Green—cloud	19
River—lakes		Memory—mind		Salt—planting	13
White—foam	17	Sheep—mutton		Street—walk	
Beautiful—man	1	Bath—water		King—human	19
Window—glass		Cottage—house		Cheese—milk	
Rough—people	6	Swift—ship	15	Blossom—flowers	
Citizen—man	1	Blue—lines	17	Afraid—human	15
Foot—people	6	Hungry—people	6		
Spider—barn	15	Priest—man	1		

CASE No. 01218.—E. M. Repetition of words previously given; non-specific reactions.

Table—tablecloth		Needle—use	1	Ocean—useful	6
Dark—dog		Red—look	15	Head—nice	6
Music—figure	17	Sleep—good	1	Stove—lighted	2
Sickness—drink	17	Anger—no	12	Long—lake	
Man—people	1	Carpet—make	19	Religion—pleasant	6
Deep—pull	19	Girl—happy	9	Whiskey—use	6
Soft—light	1	High—nice	6	Child—help	6
Eating—think	1	Working—pleasant	1	Bitter—sour	
Mountain—well	13	Sour—bag	10	Hammer—stick	19
House—plumber	17	Earth—ground		Thirsty—drink	
Black—horse		Trouble—good	6	City—handy	19
Mutton—park	19	Soldier—clothes		Square—pleasant	6
Comfort—nice	1	Cabbage—eat		Butter—useful	1
Hand—use	1	Hard—good	1	Doctor—help	
Short—long		Eagle—pleasant	6	Loud—make	15
Fruit—figs		Stomach—hurt	2	Thief—punish	2
Butterfly—cloth	19	Stem—use	1	Lion—bad	9
Smooth—nice	1	Lamp—lighted		Joy—happy	1
Command—pleasant	6	Dream—pleasant	1	Bed—pleasant	1
Chair—wash	19	Yellow—wake	15	Heavy—light	
Sweet—sour		Bread—making		Tobacco—pleasant	1
Whistle—mug	19	Justice—help		Baby—help	6
Woman—pear	19	Boy—pleasant	6	Moon—sun	
Cold—warm		Light—big	19	Scissors—pleasant	6
Slow—quickness		Health—nice	6	Quiet—sleep	
Wish—nice	1	Bible—use	1	Green—beans	10
River—pleasant	1	Memory—no	12	Salt—handy	15
White—use	6	Sheep—pleasant	6	Street—make	15
Beautiful—comfort	19	Bath—good	1	King—nice	6
Window—looks	2	Cottage—useful	6	Cheese—good	1
Rough—pleasant	6	Swift—quick		Blossom—pleasant	1
Citizen—comfort	15	Blue—good	1	Afraid—will	19
Foot—help		Hungry—sour	15		
Spider—wake	19	Priest—good	1		

CASE No. 4989.—C. H. Repetition of words previously given; non-specific reactions; particles.

Table—work	1	Needle—steel		Ocean—three	12
Dark—true	10	Red—color		Head—good	1
Music—pleasant	1	Sleep—plenty		Stove—burning	
Sickness—well		Anger—never		Long—medium	
Man—absent	19	Carpet—floor		Religion—willing	15
Deep—together	12	Girl—five	12	Whiskey—some	19
Soft—plenty	6	High—medium		Child—good	1
Eating—good	1	Working—always	6	Bitter—never	6
Mountain—together	12	Sour—never		Hammer—tool	
House—one	12	Earth—cultivate	17	Thirsty—seldom	6
Black—America	10	Trouble—none		City—New York	
Mutton—vegetable	2	Soldier—willing	15	Square—always	6
Comfort—sleep		Cabbage—vegetable		Butter—good	1
Hand—nothing	19	Hard—seldom	12	Doctor—good	1
Short—never	12	Eagle—American		Loud—medium	6
Fruit—vegetable		Stomach—no	12	Thief—none	
Butterfly—bird		Stem—one	12	Lion—animal	
Smooth—large	6	Lamp—burning		Joy—plenty	6
Command—willing		Dream—always	6	Red—good	1
Chair—good	6	Yellow—sometimes	12	Heavy—medium	6
Sweet—always	6	Bread—soft		Tobacco—yes	12
Whistle—music		Justice—always		Baby—more	10
Woman—one	12	Boy—two	12	Moon—bright	
Cold—medium	6	Light—plenty		Scissors—sharp	
Slow—quick		Health—plenty		Quiet—plenty	6
Wish—hope		Bible—Catholic	17	Green—good	6
River—lake		Memory—good	1	Salt—little	19
White—always	6	Sheep—wool		Street—lots	18
Beautiful—medium	6	Bath—good	1	King—none	
Window—open		Cottage—plenty		Cheese—seldom	6
Rough—smooth		Swift—medium	6	Blossom—always	6
Citizen—American		Blue—never	6	Afraid—sometimes	15
Foot—two		Hungry—seldom	6		
Spider—butterfly		Priest—good	1		

CASE No. 4847.—C. C. Distraction.

Table—eat		Needle—scissors	17	Ocean—beans	19
Chair—lock	10	Red—blue		Head—prunes	18
Music—fiddle		Sleep—pink	18	Stove—cook	
Sickness—doctors	2	Anger—box	19	Long—fig	19
Man—woman	1	Carpet—rug		Religion—church	
Deep—water		Girl—boy		Whiskey—tea	17
Soft—snow		High—play		Child—people	1
Eating—oats	17	Working—cup	19	Bitter—stomach	19
Mountain—spray	19	Sour—bread	17	Hammer—tack	
House—building		Earth—picture	19	Thirsty—peach	15
Black—red	15	Trouble—soap	19	City—box	15
Mutton—meat	9	Soldier—towel	18	Square—soap	15
Comfort—red	15	Cabbage—turnip		Butter—lard	
Hand—people	9	Hard—tree		Doctor—sick	
Short—world	19	Eagle—clock	19	Loud—head	19
Fruit—age	18	Stomach—eat		Thief—cup	15
Butterfly—bird		Stem—soap	15	Lion—bottle	15
Smooth—eggs	18	Lamp—oil		Joy—pitcher	19
Command—cake	19	Dream—glass	18	Red—sheet	
Chair—world	15	Yellow—bottle	18	Heavy—blanket	18
Sweet—cherries	18	Bread—soap	15	Tobacco—mustard	19
Whistle—peaches	18	Justice—pencil	19	Baby—pepper	18
Woman—children		Boy—picture	15	Moon—heater	19
Cold—summer	17	Light—darkness		Scissors—string	
Slow—brother	19	Health—washstand	19	Quiet—lace	19
Wish—pear	19	Bible—book		Green—red	
River—orange	18	Memory—saucer	19	Salt—soda	17
White—black		Sheep—chair	19	Street—soldier	19
Beautiful—red	18	Bath—bureau	14	King—box	15
Window—door		Cottage—pan	19	Cheese—cake	
Rough—table		Swift—towel	15	Blossom—shell	19
Citizen—couch	19	Blue—wash	2	Afraid—blotter	19
Foot—arm		Hungry—eat			
Spider—fly		Priest—church			

CASE No. 3597.—L. T. Some neologisms, all possessing obvious meaning.

Table—stand	Needle—pin	Ocean—sea
Dark—light	Red—blue	Head—topness
Music—instrument	Sleep—awake	Stove—cooking 4
Sickness—health	Anger—patient 2	Long—shorter 2
Man—female	Carpet—rug	Religion—wickedness ..
Deep—deftableness 4	Giri—servant	Whiskey—medicine
Soft—hard	High—low	Child—daughter
Eating—starving	Working—laziness	Bitter—sweetness 2
Mountain—isthmus 17	Sour—sweet	Hammer—pickaxe 17
House—building	Earth—hemisphere	Thirsty—drinkness 4
Black—white	Trouble—goodness 9	City—village
Mutton—beef	Soldier—merchant 17	Square—straightness 2
Comfort—patient	Cabbage—pumpkin 17	Butter—syrup 17
Hand—leg	Hard—tight	Doctor—queen 19
Short—long	Eagle—hawk	Loud—low
Fruit—vegetable	Stomach—abdomen	Thief—burglar
Butterfly—spider	Stem—leaf	Lion—tiger
Smooth—coarse	Lamp—lantern	Joy—enjoyable 2
Command—thought 1	Dream—nightmare	Red—bedstead
Chair—utensil 19	Yellow—lavender 17	Heavy—lightness
Sweet—sour	Bread—pastry	Tobacco—sweetness 2
Whistle—trumpet	Justice—badness 2	Baby—infant
Woman—man 1	Boy—child	Moon—sun
Cold—warm	Light—darkness	Scissors—shears
Slow—quick	Health—sickness	Quiet—noisencas 4
Wish—command	Bible—testament	Green—greenbill 3
River—lake	Memory—remember	Salt—sugar
White—black	Sheep—lamb	Street—land 19
Beautiful—pretty 1	Bath—dirtiness 2	King—nephew 19
Window—door	Cottage—building	Cheese—curdness 4
Rough—straight	Swift—quickly	Blossom—bud
Citizen—tramp 19	Blue—redness 2	Afraid—knowledgeable .. 4
Foot—arm	Hungry—starving	
Spider—fly	Priest—minister	

GENERAL PARESIS.

Cases presenting no considerable dementia or confusion and cases in a state of remission are apt to give normal test records. As we proceed from the records of such cases to those of cases showing mental deterioration we observe a gradual reduction in the values of reactions, contraction of the mental horizon,¹ and the appearance of the phenomenon of perseveration. We submit the following test records for illustration:

¹ What we mean by contraction of the mental horizon has already been described in connection with epilepsy, page 47.

CASE No. 4047.—C. A. F. Almost complete remission of all mental symptoms. Normal record.

Table—dish	Needle—sharp	Ocean—sea
Dark—light	Red—color	Head—top
Music—sound	Sleep—slumber	Stove—fire
Sickness—disease	Anger—rage	Long—short
Man—woman	Carpet—sweep	Religion—holy
Deep—fathomless	Girl—maiden	Whiskey—drink
Soft—sweet	High—lofty	Child—infant
Eating—food	Working—toiling	Bitter—sour
Mountain—high	Sour—distasteful	Hammer—knock
House—barn	Earth—ground	Thirsty—drink
Black—color	Trouble—sorrow	City—town
Mutton—meat	Soldier—fighter	Square—round
Comfort—ease	Cabbage—leaf	Butter—eat
Hand—foot	Hard—easy	Doctor—physician
Short—long	Eagle—fly	Loud—knock
Fruit—sweet	Stomach—food	Thief—steal
Butterfly—moth	Stem—petal	Lion—tiger
Smooth—rough	Lamp—light	Joy—happiness
Command—order	Dream—slumber	Bed—sleep
Chair—leg	Yellow—color	Heavy—weigh
Sweet—pleasant	Bread—eat	Tobacco—smoke
Whistle—sound	Justice—judgment	Baby—child
Woman—female	Boy—youth	Moon—stars
Cold—ice	Light—lamp	Scissors—cut
Slow—languid	Health—nature	Quiet—soft
Wish—desire	Bible—holy	Green—color
River—long	Memory—remember	Salt—food
White—color	Sheep—lamb	Street—lane
Beautiful—fair	Bath—water	King—queen
Window—glass	Cottage—house	Cheese—eat
Rough—smooth	Swift—fast	Blossom—flower
Citizen—voter	Blue—color	Afraid—fear
Foot—toe	Hungry—famished	
Spider—fly	Priest—holy	

CASE No. 6660.—F. F. Repetition of words previously given; non-specific reactions; unclassified reactions some of which are “circumstantial” (see page 25).

Table—bureau	Needle—sew	Ocean—bouts
Dark—boats	Red—nice	Head—brains
Music—piano	Sleep—rest	Stove—heat
Sickness—doctor	Anger—cross	Long—streets
Man—sober	Carpet—good	Religion—Catholic
Deep—cellar	Girl—nice	Whiskey—bad
Soft—easy	High—good	Child—good
Eating—chewing	Working—well	Bitter—sorrow
Mountain—climb	Sour—bitter	Hammer—use
House—tenants	Earth—property	Thirsty—drink
Black—color	Trouble—fighting	City—Brooklyn
Mutton—meat	Soldier—good	Square—parks
Comfort—easy	Cabbage—eat	Butter—ice
Hand—use	Hard—sorry	Doctor—cure
Short—stump	Eagle—good	Loud—holler
Fruit—nice	Stomach—good	Thief—no
Butterfly—like	Stein—fair	Lion—no
Smooth—clean	Lamp—use	Joy—hope
Command—faithful	Dream—now	Bed—rest
Chair—easy	Yellow—color	Heavy—load
Sweet—like	Bread—good	Tobacco—good
Whistle—good	Justice—fine	Baby—good
Woman—like	Boy—good	Moon—light
Cold—medicine	Light—good	Scissors—use
Slow—I	Health—right	Quiet—good
Wish—like	Bible—home	Green—nice
River—boats	Memory—good	Salt—use
White—sheet	Sheep—like	Street—nice
Beautiful—flowers	Bath—good	King—right
Window—red	Cottage—fine	Cheese—nice
Rough—streets	Swift—go	Blossom—grow
Citizen—honest	Blue—nice	Afraid—no
Foot—walking	Hungry—bad	
Spider—kill	Priest—Father	

CASE No. 6185.—R. N. Numerous particles of speech; some unclassified reactions, chiefly "circumstantial" (see page 25).

Table—eat	Needle—sewing	Ocean—water
Dark—cloudy	Red—blue	Head—human
Music—fond .....19	Sleep—nap	Stove—coal
Sickness—well	Anger—willing	Long—short
Man—human	Carpet—yes	Religion—yes 6
Deep—ocean	Girl—nature	Whiskey—no .....12
Soft—fine 1	High—low	Child—baby
Eating—yes 6	Working—artist	Bitter—sweet
Mountain—yes 5	Sour—sweet	Hammer—pincher .....17
House—yes 5	Earth—world	Thirsty—drinking
Black—yes 5	Trouble—peaceful	City—population
Mutton—yes 5	Soldier—no .....12	Square—circle
Comfort—yes 5	Cabbage—vegetable	Butter—lard
Hand—finger	Hard—soft	Doctor—physician
Short—yes 6	Eagle—American	Loud—low
Fruit—yes 5	Stomach—condition	Thief—penalty .....17
Butterfly—yes 5	Stem—pot	Lion—liar .....10
Smooth—even	Lamp—light	Joy—welcome .....17
Command—obey	Dream—thinking 1	Bed—sleep
Chair—settle .....17	Yellow—green	Heavy—light
Sweet—bitter	Bread—loaf	Tobacco—yes 6
Whistle—can't .....19	Justice—yes	Baby—human
Woman—lady	Boy—human	Moon—natural .....15
Cold—ice	Light—heaven	Scissors—no .....12
Slow—fast	Health—wealth	Quiet—yes 6
Wish—give	Bible—yes 6	Green—shade
River—enjoyment .....19	Memory—yes 5	Salt—eat
White—black	Sheep—animal	Street—town
Beautiful—yes 6	Bath—yes	King—ruler
Window—pane	Cottage—yes 5	Cheese—eat
Rough—smooth	Swift—fast	Blossom—blooming
Citizen—yes 6	Blue—gray	Afraid—scared
Foot—one .....12	Hungry—no	
Spider—yes 6	Priest—yes 6	

CASE No. 6518.—C. Z. Perseveration shown by numerous instances of association to preceding reaction.

Table—horse .....19	Needle—pin	Ocean—mother .....18
Dark—wren .....19	Red—blue	Head—brother .....18
Music—lark .....18	Sleep—awake	Stove—sister .....18
Sickness—cold	Anger—bad 1	Long—freedom .....15
Man—woman 1	Carpet—sawper	Religion—smart .....19
Deep—sea	Girl—boy	Whiskey—wine
Soft—hard	High—low	Child—lamb .....19
Eating—drinking	Working—playing	Bitter—goat .....18
Mountain—fountain	Sour—sweet	Hammer—nails
House—barn	Earth—ground	Thirsty—dry
Black—stable .....13	Trouble—whitethrow .....19	City—talking .....19
Mutton—cow	Soldier—Mexican .....17	Square—inches
Comfort—horse .....18	Cabbage—potatoes	Butter—cheese
Hand—lamb .....18	Hard—beets .....18	Doctor—bread .....13
Short—calf .....18	Eagle—carrots .....18	Loud—oranges .....15
Fruit—apples	Stomach—peas .....18	Thief—almonds .....18
Butterfly—oranges 2	Stem—peas 5	Lion—apples .....18
Smooth—peaches .....18	Lamp—burning	Joy—grapes .....18
Command—plums .....18	Dream—happy 1	Bed—peaches .....18
Chair—bench	Yellow—blue	Heavy—cranberries .....18
Sweet—sugar	Bread—green .....13	Tobacco—grapes .....18
Whistle—drum .....17	Justice—freedom	Baby—watermelons .....18
Woman—man 1	Boy—girl	Moon—muskmelons .....18
Cold—hot	Light—burning	Scissors—citrons .....10
Slow—fast	Health—strength	Quiet—squashes .....18
Wish—who .....13	Bible—prayerbook	Green—pumpkins .....18
River—water	Memory—thoughts 1	Salt—cucumbers .....18
White—blue	Sheep—lamb	Street—tomatoes .....18
Beautiful—splendid	Bath—water	King—pears .....18
Window—sashes 2	Cottage—house	Cheese—apples .....18
Rough—ready	Swift—whist .....10	Blossom—cherries
Citizen—Brooklyn	Blue—red	Afraid—gooseberries .....18
Foot—shoe	Hungry—eating	
Spider—web	Priest—father	

CASE No. 5329.—B. W. Perseveration; record almost entirely made up of instances of association to preceding reaction.

Table—San Francisco ..19	Needle—Texas	18	Ocean—lake
Dark—comprehensible ..19	Red—North Carolina ..18		Head—bay
Music—singing	Sleep—Florida	18	Stove—sound
Sickness—Brooklyn ..19	Anger—Seattle	18	Long—Island
Man—woman	Carpet—Nevada	18	Religion—Boston ..18
Deep—amazing	Girl—Iowa	15	Whiskey—Harvard ..18
Soft—pleasant	High—Virginia	18	Child—Yale
Eating—digesting	Working—Louisiana ..18		Bitter—Columbia ..18
Mountain—gulf	Sour—Hawaii	18	Hammer—library ..18
House—peninsula	Earth—Connecticut ..18		Thirsty—Carnegie ..18
Black—Constantinople ..18	Trouble—Rhode Island ..18		City—Rockefeller ..18
Mutton—Bermuda	Soldier—Vermont	18	Square—Harriman ..18
Comfort—Los Angeles ..18	Cabbage—Massachusetts ..18		Butter—Leggitt
Hand—Cuba	Hard—Hudson	18	Doctor—Lincoln
Short—cities	Eagle—East River	18	Loud—Roosevelt
Fruit—Iowa	Stomach—Staten Island ..18		Thief—Taft
Butterfly—England	Stem—Kings Park	18	Lion—Gaynor
Smooth—Russia	Lamp—Fort Lee	18	Joy—Slocum
Command—Turkey	Dream—Long Island	18	Bed—Grant
Chair—Manila	Yellow—Greenport	18	Heavy—McClellan ..18
Sweet—Porto Rico	Bread—Southold	18	Tobacco—Spain
Whistle—Washington ..18	Justice—Northport	18	Baby—New London ..18
Woman—Cincinnati	Boy—New Jersey	18	Moon—Newburgh
Cold—Pittsburg	Light—Rome	18	Scissors—Troy
Slow—Philadelphia	Health—Italy	18	Quiet—Schenectady ..18
Wish—Milwaukee	Bible—Episcopal	17	Green—Lake George ..18
River—St. Louis	Memory—Methodist	18	Salt—Vienna
White—Japan	Sharp—Congregational ..18		Street—Alsace Lorraine ..18
Beautiful—China	Bath—Baptist	18	King—Garfield
Window—Berlin	Cottage—minister	18	Cheese—McKinley
Rough—Glasgow	Swift—physician	18	Blossom—Bryan
Citizen—London	Blue—horse	18	Afraid—Blaine
Foot—Dublin	Hungry—cow	18	
Spider—Sacramento	Priest—Catholic	18	

MANIC-DEPRESSIVE INSANITY.

In this disorder the departures from the normal seem to be less pronounced than in the psychoses considered above. The number of individual reactions is in most cases not greatly above the normal average; and, so far as their character is concerned, we find that many of them are classed as normal, in accordance with the appendix to the frequency tables; among the unclassified reactions, which are quite frequent here, we find mostly either obviously normal ones, or some of the type to which we have already referred as "far-fetched," while others among them are "circumstantial" (see p. 25); further we find that most of the remaining individual reactions fall into the general group of partial dissociation: non-specific reactions, sound reactions, word complements, and particles.

In some cases the only abnormality that is found is that of an undue tendency to respond by non-specific reactions, most of them being common and there being no excessive number of individual reactions. It would seem legitimate to assume that this tendency

is here to be regarded as a manifestation of the phenomenon which is clinically described as *dearth of ideas*. It is significant that this tendency is observed not only in depressive phases of the psychosis, but also in manic phases and even in the normal intervals of recurrent cases or after apparent recovery in acute cases; this will be seen from some of the test records which are here reproduced.

Occasionally cases are met with which give a large number of unclassified reactions, seemingly incoherent. There can be no doubt that at least some of these cases are clinically perfectly typical ones of manic-depressive insanity, yet the test records strongly resemble, in some respects, those of dementia præcox. Since clinically the distinction between typical cases of these psychoses can be so clearly made on the basis of the disorders of the flow of thought respectively characterizing them, it could hardly be assumed that the associational disturbances in these two groups of cases are truly related, although there may be an apparent resemblance; it must be acknowledged that we are here confronted with one of the most serious shortcomings of the association test, or at least of the present method of applying it.

CASE No. 5236.—M. B. Depressive attack. Normal record.

Table—eat	Needle—sew	Ocean—water
Dark—night	Red—color	Head—body
Music—play	Sleep—rest	Stove—fire
Sickness—death	Anger—badness	Long—tall
Man—health	Carpet—floor	Religion—teaching
Deep—depth	Girl—young	Whiskey—drink
Soft—hard	High—low	Child—young
Eating—chewing	Working—busy	Bitter—sweet
Mountain—high	Sour—sweet	Hammer—nail
House—living	Earth—live	Thirsty—drink
Black—color	Trouble—grief	City—town
Mutton—sheep	Soldier—army	Square—four
Comfort—kind	Cabbage—garden	Butter—eat
Hand—body	Hard—stone	Doctor—medicine
Short—small	Eagle—bird	Loud—noise
Fruit—garden	Stomach—body	Thief—steal
Butterfly—spring	Stem—plant	Lion—beast
Smooth—rough	Lamp—light	Joy—kind
Command—obey	Dream—sleep	Bed—sleep
Chair—sit	Yellow—color	Heavy—weight
Sweet—apple	Bread—eat	Tobacco—smoke
Whistle—music	Justice—kind	Baby—mother
Woman—kind	Boy—young	Moon—light
Cold—chilly	Light—day	Scissors—cut
Slow—easy	Health—strength	Quiet—kind
Wish—want	Bible—Christ	Green—grass
River—water	Memory—think	Salt—table
White—color	Sheep—mutton	Street—walk
Beautiful—grand	Bath—clean	King—government
Window—light	Cottage—live	Cheese—eat
Rough—smooth	Swift—run	Blossom—tree
Citizen—man	Blue—color	Afraid—coward
Foot—body	Hungry—food	
Spider—animal	Priest—clergy	

CASE No. 6120.—M. L. Maniacal attack. Fifteen individual reactions, of which 11 are classed as normal in accordance with the appendix to the frequency tables.

Table—chair	Needle—doctor	19	Ocean—sea
Dark—light	Red—white		Head—neck
Music—chorus	Sleep—well		Stove—electricity
Sickness—health	Anger—passion		Long—broad
Man—woman	Carpet—cloth		Religion—Presbyterian ..
Deep—around	Girl—boy		Whiskey—medicinal
Soft—light	High—low		Child—boy
Eating—food	Working—pleasure	1	Bitter—sweet
Mountain—valley	Sour—sweet		Hammer—saw
House—flat	Earth—heaven		Thirsty—water
Black—white	Trouble—anger		City—Middle-town
Mutton—beef	Soldier—mine	12	Square—Madison
Comfort—disease	Cabbage—steak	17	Butter—bread
Hand—legs	Hard—soft		Doctor—love
Short—tall	Eagle—parrot		Loud—soft
Fruit—grapes	Stomach—pelvis	17	Thief—burglar
Butterfly—birds	Stem—flowers		Lion—animal
Smooth—rough	Lamp—light		Joy—ecstasy
Command—president	Dream—empty	17	Bed—couch
Chair—assemblyman	Yellow—black		Heavy—lead
Sweet—bitter	Bread—brown		Tobacco—smoke
Whistle—birds	Justice—done		Baby—boy
Woman—man	Boy—baby		Moon—stars
Cold—warm	Light—heaven		Scissors—cotton
Slow—fast	Health—wealth		Quiet—noisy
Wish—well	Bible—love		Green—yellow
River—mountain	Memory—remembrance		Salt—pepper
White—red	Sheep—goat		Street—Dean
Beautiful—heaven	Bath—water		King—God
Window—door	Cottage—house		Cheese—Roguefort
Rough—smooth	Swift—slow		Blossom—apple
Citizen—naturalization	Blue—green		Afraid—never
Foot—hand	Hungry—I		
Spider—bug	Priest—minister		

CASE No. 6367.—J. N. Depressive attack. Only two individual reactions, both classed as normal; undue tendency to give non-specific reactions.

Table—cup	Needle—thread		Ocean—water
Dark—light	Red—blue		Head—arm
Music—song	Sleep—rest		Stove—warm
Sickness—pain	Anger—passion		Long—short
Man—child	Carpet—rug		Religion—good
Deep—high	Girl—child		Whiskey—none
Soft—hard	High—low		Child—good
Eating—tasting	Working—labor		Bitter—sour
Mountain—valley	Sour—sweet		Hammer—noise
House—room	Earth—ground		Thirsty—water
Black—white	Trouble—overcome	17	City—country
Mutton—lamb	Soldier—brave		Square—round
Comfort—peace	Cabbage—lettuce		Butter—salt
Hand—foot	Hard—soft		Doctor—good
Short—long	Eagle—bird		Loud—noise
Fruit—apple	Stomach—heart		Thief—man
Butterfly—moth	Stem—tree		Lion—beast
Smooth—rough	Lamp—light		Joy—good
Command—obey	Dream—sleep		Bed—good
Chair—table	Yellow—red		Heavy—weight
Sweet—sour	Bread—roll		Tobacco—smoke
Whistle—song	Justice—peace		Baby—child
Woman—love	Boy—child		Moon—sun
Cold—warm	Light—sun		Scissors—knife
Slow—fast	Health—wealth		Quiet—rest
Wish—well	Bible—good	1	Green—red
River—water	Memory—good	1	Salt—water
White—black	Sheep—lamb		Street—city
Beautiful—grand	Bath—water		King—man
Window—glass	Cottage—house		Cheese—butter
Rough—smooth	Swift—fast		Blossom—flower
Citizen—man	Blue—white		Afraid—fear
Foot—hand	Hungry—eat		
Spider—fly	Priest—man	1	

CASE No. 5162.—W. H. Recurrent attacks, mixed in character; at time of test patient was in a normal interval. 5 individual reactions, of which 1 is classed as normal, 1 as a derivative, 2 as non-specific, and 1 as a sound reaction; undue tendency to give non-specific (common) reactions.

Table—comfort	Needle—sharpness	Ocean—sailing
Dark—darkness 8	Red—blood	Head—thinking 1
Music—pleasure 1	Sleep—comfort	Stove—warmth
Sickness—sorrow	Anger—passion	Long—length
Man—manners 10	Carpet—walking	Religion—holiness
Deep—thought 1	Girl—lovely	Whiskey—badness 2
Soft—comfort	High—height	Child—pleasure 1
Eating—pleasure 1	Working—business	Bitter—sourness
Mountain—height	Sour—tart	Hammer—pounding
House—comfort	Earth—planting	Thirsty—drinking
Black—darkness	Trouble—sorrow	City—town
Mutton—eating	Soldier—fighting	Square—measure
Comfort—pleasure 1	Cabbage—eating	Butter—greasy
Hand—useful 1	Hard—harshness 2	Doctor—medicine
Short—stumpy	Eagle—flying 2	Loud—hearing 2
Fruit—eating	Stomach—eating	Thief—stealing
Butterfly—handsome	Stem—vine	Lion—fierceness
Smooth—plane	Lamp—lighting 2	Joy—pleasure 1
Command—ordering	Dream—pleasure 1	Bed—sleeping
Chair—easy	Yellow—color	Heavy—solid
Sweet—candy	Bread—eating	Tobacco—pleasure 1
Whistle—noise	Justice—suing 17	Baby—loveliness
Woman—love	Boy—children	Moon—bright
Cold—freezing	Light—seeing	Scissors—sharpness
Slow—laziness	Health—pleasure 1	Quiet—pleasure 1
Wish—good 1	Bible—thinking 0	Green—color
River—water	Memory—recollections .. 0	Salt—taste
White—cleanness 2	Sheep—wool	Street—walking
Beautiful—handsome	Bath—pleasure 1	King—majestic
Window—scene	Cottage—living	Cheese—eating
Rough—harshness	Swift—quickness	Blossom—handsome
Citizen—voting	Blue—sky	Afraid—fear
Foot—stepping	Hungry—pleasure 0	
Spider—poison	Priest—holiness	

CASE No. 6279.—A. F. Maniacal attack; at time of test patient had improved, though not recovered. Non-specific reactions; particles. (Patient does not speak English with perfect fluency.)

Table—board	Needle—steel	Ocean—Grove
Dark—night	Red—rose	Head—black
Music—piano	Sleep—well	Stove—shine 10
Sickness—appendicitis ..	Anger—not	Long—square
Man—husband	Carpet—beauty 1	Religion—no
Deep—hole	Girl—love	Whiskey—champagne ... 17
Soft—hard	High—reason 19	Child—my 2
Eating—vegetable	Working—dream 13	Bitter—pepper
Mountain—country	Sour—vinegar	Hammer—knock
House—comfort	Earth—ground	Thirsty—no 12
Black—cotton 17	Trouble—much	City—New York
Mutton—lamb	Soldier—blue	Square—table
Comfort—rest	Cabbage—sour	Butter—good 1
Hand—arm	Hard—no 12	Doctor—B. 17
Short—journey	Eagle—paper	Loud—talk
Fruit—apples	Stomach—well 17	Thief—night
Butterfly—love 13	Stem—flower	Lion—yes 12
Smooth—nice 1	Lamp—light	Joy—good 1
Command—order	Dream—awful 19	Bed—comfort
Chair—down 12	Yellow—flower	Heavy—iron
Sweet—sugar	Bread—rye	Tobacco—strong
Whistle—blow	Justice—court	Baby—love
Woman—good 1	Boy—little	Moon—shine
Cold—ice	Light—room	Scissors—cut
Slow—lazy	Health—love 15	Quiet—well
Wish—home	Bible—no 12	Green—bow 17
River—boat	Memory—good 1	Salt—bitter
White—milk	Sheep—lot 19	Street—Hinsdale 17
Beautiful—flowers	Bath—cold	King—Franz Joseph ... 17
Window—corner	Cottage—little	Cheese—Swiss
Rough—man 1	Swift—kick 17	Blossom—nice 1
Citizen—not 12	Blue—no 12	Afraid—no
Foot—short	Hungry—no	
Spider—don't 12	Priest—love 15	

CASE No. 4578.—E. M. Circular insanity of over twenty years' standing; at time of test patient was in a manic phase. Non-specific reactions; doubtful reactions; neologisms, all possessing obvious meaning.

Table—using	1	Needle—article	1	Ocean—water	
Dark—unbright	4	Red—color		Head—body	
Music—songs		Sleep—tiredness	4	Stove—article	1
Sickness—catching	17	Anger—scolding		Long—shortly	2
Man—masculine		Carpet—article	1	Religion—Bible	
Deep—high		Girl—female		Whiskey—drinking	
Soft—chew	19	High—low		Child—disremembering	4
Eating—sometimes	12	Working—do		Bitter—taste	
Mountain—highlands		Sour—tasting		Hammer—using	1
House—live		Earth—surface		Thirsty—drinking	
Black—color		Trouble—worryment		City—acting	15
Mutton—meat		Soldier—man	1	Square—measuring	2
Comfort—easy		Cabbage—vegetable		Butter—food	
Hand—body		Hard—difficult		Doctor—helping	2
Short—unlongly	4	Eagle—bird		Loud—hearing	2
Fruit—plants		Stomach—body		Thief—untrue	15
Butterfly—insects		Stem—article	6	Lion—animal	
Smooth—feeling		Lamp—article	1	Joy—gladness	
Command—do		Dream—untruly	4	Bed—lying	
Chair—use	1	Yellow—color		Heavy—unlightly	4
Sweet—taste		Bread—food		Tobacco—using	1
Whistle—act		Justice—unfairly	2	Baby—borning	4
Woman—female		Boy—masculine		Moon—sending	19
Cold—acting	2	Light—easy		Scissors—using	1
Slow—gradually	17	Health—sickness		Quiet—acting	2
Wish—desire		Bible—commandments		Green—color	
River—water		Memory—remember		Salt—food	
White—color		Sheep—animal		Street—walking	
Beautiful—niceness	2	Bath—cleanness		King—person	1
Window—built	19	Cottage—country		Cheese—food	
Rough—treatment	17	Swift—quickly		Blossom—plant	
Citizen—country		Blue—color		Afraid—frightened	
Foot—body		Hungry—food			
Spider—insect		Priest—masculine	15		

CASE No. 5878.—A. B. Maniacal attack. 48 individual reactions, of which 18 are classed as normal, 10 are sound reactions (2 sound neologisms), 1 word complement, 8 particles, and 11 unclassified reactions most of which are either obviously normal or “far fetched” but not strictly incoherent.

Table—mahogany		Needle—tailor		Ocean—Niagara	17
Dark—green		Red—Herald	19	Head—rest	
Music—masonic	10	Sleep—seven	12	Stove—stationary	10
Sickness—seasickness	10	Anger—Angoria	3	Long—poems	19
Man—maternity	10	Carpet—green		Religion—Catholic	
Deep—well		Girl—eighteen	12	Whiskey—Hunter	
Soft—silk		High—school	11	Child—Jesus	17
Eating—cleanliness	19	Working—ten	12	Bitter—gall	
Mountain—Gibraltar	17	Sour—kraut		Hammer—steel	
House—bungalow		Earth—round		Thirsty—water	
Black—light		Trouble—son	19	City—New York	
Mutton—lamb		Soldier—navy		Square—Union	
Comfort—linen	17	Cabbage—curly	19	Butter—sweet	
Hand—left	17	Hard—stone		Doctor—S.	17
Short—shorthand	10	Eagle—almanac	17	Loud—discreet	19
Fruit—pears		Stomach—stomjack	3	Thief—night	
Butterfly—canary	17	Stem—maple	17	Lion—Boatock	2
Smooth—linen	17	Lamp—New York	19	Joy—Joy Line	10
Command—pilot	17	Dream—husband	19	Bed—Ostermoor	17
Chair—round		Yellow—cards	17	Heavy—iron	
Sweet—sugar		Bread—rye		Tobacco—Durham	
Whistle—mother	19	Justice—liberty		Baby—Rose	17
Woman—twenty-one	12	Boy—Joe		Moon—half	
Cold—ice		Light—white		Scissors—steel	
Slow—music		Health—death	10	Quiet—nursing	19
Wish—girl		Bible—holy		Green—grass	
River—Hudson		Memory—seven	12	Salt—rock	
White—plaster	17	Sheep—lamb		Street—Liberty	17
Beautiful—nature		Bath—cleanliness		King—Alphonso	
Window—St. Patrick's	17	Cottage—gray	17	Cheese—Swiss	
Rough—blankets	19	Swift—ball		Blossom—apple	
Citizen—twenty-one	12	Blue—balloon	10	Afraid—dark	
Foot—six	12	Hungry—yes	12		
Spider—dy		Priest—doctor			

CASE No. 6511.—U. B. Maniacal attack. Persistent use of particles *oh*, *me*, *I*, *none*, etc.

Table—none	6	Needle—pine	17	Ocean—I	5
Dark—red	19	Red—brother	19	Head—home	6
Music—stock	19	Sleep—Adam	19	Stove—home	6
Sickness—rose	19	Anger—I	6	Long—short	6
Man—Frank	17	Carpet—home	6	Religion—none	6
Deep—blue	17	Girl—Agatha	17	Whiskey—none	6
Soft—pillow	17	High—niece	13	Child—Sylvester	17
Eating—no	12	Working—I	6	Bitter—I	6
Mountain—oyster	11	Sour—I	5	Hammer—my	12
House—mercy	19	Earth—I	5	Thirsty—no	6
Black—mother	19	Trouble—I	5	City—no	5
Mutton—me	6	Soldier—father	15	Square—Ben	19
Comfort—home	6	Cabbage—hail	19	Butter—I	6
Hand—mother	15	Hard—me	12	Doctor—I	5
Short—me	6	Eagle—I	6	Loud—bell	6
Fruit—me	5	Stomach—I	5	Thief—iron	19
Butterfly—it	12	Stem—life	6	Lion—I	6
Smooth—oh	12	Lamp—Lambert	10	Joy—I	5
Command—none	6	Dream—I	6	Bed—I	5
Chair—none	5	Yellow—I	5	Heavy—I	5
Sweet—for	12	Bread—I	5	Tobacco—I	5
Whistle—bird	6	Justice—I	5	Baby—I	5
Woman—I	6	Boy—just	13	Moon—will	12
Cold—I	5	Light—picture	19	Scissors—heads	15
Slow—me	6	Health—cook	19	Quiet—nerves	19
Wish—none	2	Bible—beads	17	Green—I	6
River—are	12	Memory—Dick	19	Salt—I	5
White—wife	10	Sheep—to	12	Street—Peter	17
Beautiful—Alma	17	Bath—none	6	King—I	6
Window—Stephen	19	Cottage—home	6	Cheese—I	5
Rough—Rudolphia	10	Swift—lazy	6	Blossom—I	5
Citizen—father	17	Blue—Neil	19	Afraid—no	6
Foot—Anthon	19	Hungry—I	6		
Spider—reverend	19	Priest—I	5		

CASE No. 4427.—A. R. Maniacal attack. Unusual number of doubtful reactions; 46 individual reactions of which 9 are classed as normal; 29 are unclassified, some seemingly incoherent.

Table—Chicago	19	Needle—canoe	19	Ocean—ships	6
Dark—Montreal	18	Red—refreshments	10	Head—intelligence	6
Music—Mississippi	18	Sleep—restfulness	2	Stove—woods	2
Sickness—flowers	19	Anger—usefulness	9	Long—trains	2
Man—ocean	19	Carpet—coach	19	Religion—godliness	2
Deep—medicines	19	Girl—finery	19	Whiskey—drunkenness	2
Soft—accidental	19	High—fortifications	19	Child—joyfulness	2
Eating—vaccination	19	Working—materials	19	Bitter—olives	6
Mountain—evergreens	17	Sour—pickles	6	Hammer—nuts	6
House—caves	19	Earth—gravitation	2	Thirsty—water	6
Black—station	19	Trouble—graphophone	19	City—shopping	6
Mutton—operations	19	Soldier—guns	6	Square—monuments	2
Comfort—money	6	Cabbage—children	19	Butter—crackers	17
Hand—bandages	10	Hard—inheritance	19	Doctor—medicines	6
Short—soldiers	19	Eagle—feathers	6	Loud—music	6
Fruit—dictionary	19	Stomach—envelope	19	Thief—detectives	2
Butterfly—storehouse	19	Stem—roots	6	Lion—cages	2
Smooth—vegetables	18	Lamp—oil	6	Joy—home	2
Command—Bible	6	Dream—fairies	17	Bed—restfulness	2
Chair—histories	14	Yellow—lemons	2	Heavy—expressage	17
Sweet—farewells	19	Bread—jams	17	Tobacco—cigars	6
Whistle—ammunition	19	Justice—repentance	17	Baby—carriage	6
Woman—foreign	19	Boy—clothes	6	Moon—light	6
Cold—armory	19	Light—lanterns	17	Scissors—goods	6
Slow—St. Petersburg	19	Health—joys	2	Quiet—peacefulness	6
Wish—wealth	6	Bible—heaven	6	Green—vegetables	6
River—revenue	10	Memory—head	6	Salt—water	6
White—purity	6	Sheep—pastures	6	Street—stones	6
Beautiful—colonial	19	Bath—cleanliness	6	King—crown	6
Window—shutters	6	Cottage—home	6	Cheese—knife	6
Rough—planes	2	Swift—rapids	2	Blossom—plants	2
Citizen—naturalization	6	Blue—truth	6	Afraid—enemies	17
Foot—carriage	19	Hungry—appetite	6		
Spider—remedies	19	Priest—saintliness	17		

CASE No. 6457.—C. G. Depressive attack. 36 individual reactions of which 9 are classed as normal and 20 as unclassified; among the latter several seem to be incoherent.

Table—fish	17	Needle—sewing		Ocean—briny	19
Dark—boat		Red—man	9	Head—hard	
Music—water	18	Sleep—pond	19	Stove—black	
Sickness—tank	18	Anger—hatred		Long—grass	
Man—horse		Carpet—tacks		Religion—thinking	1
Deep—ocean		Girl—floor	13	Whiskey—Kentucky	
Soft—egg		High—mountain		Child—carriage	
Eating—beans	17	Working—dog	19	Bitter—pickles	
Mountain—grass		Sour—milk		Hammer—nails	
House—roof		Earth—mud		Thirsty—wanting	
Black—bath	10	Trouble—radiator	19	City—New York	
Mutton—butcher		Soldier—cannon		Square—base	17
Comfort—cigar	17	Cabbage—vegetable		Butter—cow	
Hand—shoes	19	Hard—wood		Doctor—carriage	
Short—baseball	19	Eagle—quick	19	Loud—hall	19
Fruit—orange		Stomach—flesh		Thief—prison	
Butterfly—elephant	19	Stem—pipe		Lion—cage	
Smooth—glass		Lamp—burn		Joy—automobile	
Command—general		Dream—thinking	1	Bed—iron	
Chair—kitchen	17	Yellow—mice	19	Heavy—lead	
Sweet—cake	17	Bread—baker		Tobacco—weed	
Whistle—bird		Justice—equality		Baby—rockers	
Woman—door	19	Boy—young		Moon—sky	
Cold—ice		Light—green	17	Scissors—laundry	19
Slow—cat	19	Health—art	19	Quiet—peaceful	
Wish—bed	19	Bible—preacher		Green—engine	19
River—trout	17	Memory—return	19	Salt—grocer	19
White—paint		Sheep—fold		Street—Lincoln	17
Beautiful—monkey	19	Bath—water		King—Spain	
Window—bars		Cottage—house		Cheese—baker	19
Rough—rowdy		Swift—fleeing	2	Blossom—flower	
Citizen—policeman		Blue—dark		Afraid—going	2
Foot—fine	9	Hungry—thirst			
Spider—insect		Priest—elephant	15		

INVOLUTIONAL MELANCHOLIA; ALCOHOLIC DEMENTIA; SENILE DEMENTIA.

There are so few cases of these psychoses in our series that we can say but little concerning their associational disorders.

In Table V. we show all the types of reactions given by each subject.

We have not observed in our cases of *involutional melancholia* any undue tendency to give individual reactions. The records are either perfectly normal or slightly abnormal in that they show an increase of the non-specific (common) reactions. In this respect they resemble strongly the records obtained from some cases of manic-depressive insanity. This similarity is of interest in connection with other evidence, recently brought to light,¹ showing that involutional melancholia is closely related to manic-depressive insanity, if not identical with it.

¹G. L. Dreyfus. Die Melancholie ein Zustandsbild des manisch-depressiven Irreseins. 1907.

TABLE V.

TYPES OF REACTION.	Involuntional Melancholia.							Alcoholic Dementia.					Senile Dementia.					
	Case No. 6207.	Case No. 4818.	Case No. 5719.	Case No. 6480.	Case No. 6888.	Case No. 6077.	Case No. 4812.	Case No. 5635.	Case No. 6298.	Case No. 6869.	Case No. 5967.	Case No. 6469.	Case No. 01009.	Case No. 6418.	Case No. 6471.	Case No. 5837.	Case No. 6538.	Case No. 5788.
<i>Common reactions:</i>	86	92	79	92	83	86	88	78	90	79	75	77	80	46	72	71	82	77
Specific reactions.....	13	2	12	1	9	4	6	6	8	11	10	8	3	8	16	8	..	3
Non-specific reactions	1	2	4	1	1	2	2	3	1	2	5	3	3	7	..	6	..	..
<i>Doubtful reactions.</i>																		
<i>Individual reactions:</i>																		
Normal reactions.....		2	1	4	..	3	1	6	5	4	3	4	3	14	2	4	8	3
Derivatives of stimulus words .....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	1	..
Non specific reactions .....	..	..	..	1	..	1	1	..	..	..	..	..	..	..	1	2	..	..
Sound reactions (words) .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sound reactions (neologisms).....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
Word complements .....	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..
Particles of speech .....	..	..	..	..	..	..	1	1	..	..	..	..	..	5	1	2	..	1
Association to preceding stimulus .....	..	..	..	..	1	..	1	1	..	2	..	..	..	..	..	1	..	3
Association to preceding reaction .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Repetition of preceding stimulus .....	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	3
Repetition of previous stimulus .....	..	..	..	1	..	..	1	..	..	..	..	..	..	1	2	..	1	2
Repetition of preceding reaction .....	..	..	..	..	1	..	1	..	1	2	2	4	2	4	6	3	1	2
Repetition of previous reaction .....	..	..	..	..	4	..	1	..	..	..	..	..	..	4	..	..	..	3
Reaction repeated five times .....	..	..	..	..	1	3	1	6	..	2	3	4	..	14	6	2	8	5
Neologisms without sound relation.....	..	2	4	..	..	1	1	..	..	2	..	..	8	14	..	..	..	..
Unclassified.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total individual reactions.....	0	4	5	6	7	8	9	13	6	8	10	12	14	39	12	15	18	20

CASE No. 4818.—S. M. Normal record.

Table—wood	Needle—instrument	Ocean—water
Dark—black	Red—color	Head—body
Music—noise	Sleep—repose	Stove—fire
Sickness—illness	Anger—temper	Long—distance
Man—being	Carpet—rug	Religion—creed
Deep—depth	Girl—sex	Whiskey—liquor
Soft—mushy	High—elevation	Child—infant
Eating—devouring	Working—employment	Bitter—sour
Mountain—hill	Sour—bitter	Hammer—tool
House—residence	Earth—clay	Thirsty—dry
Black—color	Trouble—anxiety	City—town
Mutton—meat	Soldier—military	Square—block
Comfort—luxury	Cabbage—vegetable	Butter—food
Hand—body	Hard—substance	Doctor—physician
Short—abrupt	Eagle—bird	Loud—noisy
Fruit—oranges	Stomach—body	Thief—burglar
Butterfly—insect	Stem—flower	Lion—animal
Smooth—even	Lamp—light	Joy—happiness
Command—order	Dream—imagination	Bed—cot
Chair—article	Yellow—color	Heavy—weight
Sweet—taste	Bread—wheat	Tobacco—weed
Whistle—noise	Justice—credit	Baby—infant
Woman—sex	Boy—child	Moon—light
Cold—temperature	Light—sun	Scissors—instrument
Slow—dull	Health—condition	Quiet—noiseless
Wish—desire	Bible—book	Green—color
River—water	Memory—remembrance	Salt—seasoning
White—color	Sheep—lamb	Street—block
Beautiful—sky	Bath—bathing	King—ruler
Window—glass	Cottage—house	Cheese—food
Rough—uneven	Swift—rapid	Blossom—flower
Citizen—representative	Blue—color	Afraid—fear
Foot—end	Hungry—desire	
Spider—insect	Priest—minister	

CASE No. 6207.—T. S. No individual reactions; 13 non-specific reactions.

Table—furniture	Needle—instrument	Ocean—water
Dark—color	Red—color	Head—person
Music—fiddle	Sleep—bed	Stove—heat
Sickness—bed	Anger—irritable	Long—length
Man—person	Carpet—rug	Religion—belief
Deep—water	Girl—person	Whiskey—drink
Soft—pliable	High—elevation	Child—person
Eating—cake	Working—try	Bitter—sour
Mountain—high	Sour—bitter	Hammer—tool
House—bricks	Earth—sand	Thirsty—dry
Black—color	Trouble—anxiety	City—place
Mutton—meat	Soldier—person	Square—shape
Comfort—easy	Cabbage—plant	Butter—eat
Hand—limb	Hard—stone	Doctor—physician
Short—small	Eagle—bird	Loud—hear
Fruit—vegetable	Stomach—person	Thief—steal
Butterfly—insect	Stem—apple	Lion—animal
Smooth—level	Lamp—light	Joy—glad
Command—control	Dream—sleep	Bed—sleep
Chair—sit	Yellow—color	Heavy—weight
Sweet—nice	Bread—flour	Tobacco—plant
Whistle—noise	Justice—equal	Baby—child
Woman—person	Boy—child	Moon—light
Cold—atmosphere	Light—gas	Scissors—tool
Slow—easy	Health—doctor	Quiet—rest
Wish—something	Bible—Scripture	Green—color
River—stream	Memory—thought	Salt—spice
White—color	Sheep—animal	Street—place
Beautiful—nice	Bath—water	King—ruler
Window—glass	Cottage—house	Cheese—eat
Rough—unpleasant	Swift—quick	Blossom—flower
Citizen—person	Blue—color	Afraid—hide
Foot—limb	Hungry—want	
Spider—insect	Priest—preach	

CASE No. 5719.—A. W. S. 5 individual reactions; 12 non-specific reactions.

Table—stand	Needle—pointed	Ocean—water
Dark—color	Red—blood	Head—brains
Music—happy	Sleep—rest	Stove—heat
Sickness—ill	Anger—riled	Long—measurement
Man—human	Carpet—covering	Religion—good
Deep—thought	Girl—child	Whiskey—alcohol
Soft—touch	High—air	Child—baby
Eating—appetite	Working—ambitious	Bitter—taste
Mountain—ground	Sour—taste	Hammer—knock
House—shelter	Earth—ground	Thirsty—water
Black—color	Trouble—thought	City—New York
Mutton—lamb	Soldier—command	Square—box
Comfort—warm	Cabbage—vegetable	Butter—milk
Hand—touch	Hard—blow	Doctor—help
Short—small	Eagle—bird	Loud—noise
Fruit—taste	Stomach—body	Thief—burglar
Butterfly—beauty	Stem—pipe	Lion—animal
Smooth—level	Lamp—light	Joy—well
Command—obey	Dream—thought	Bed—rest
Chair—rest	Yellow—purple	Heavy—load
Sweet—good	Bread—food	Tobacco—nicotine
Whistle—noise	Justice—law	Baby—joy
Woman—female	Boy—male	Moon—light
Cold—chilled	Light—lamp	Scissors—cutting
Slow—move	Health—soul	Quiet—rest
Wish—think	Bible—Scriptures	Green—color
River—water	Memory—thought	Salt—sand
White—color	Sheep—lamb	Street—crossing
Beautiful—nice	Bath—cleanness	King—ruler
Window—glass	Cottage—house	Cheese—luxury
Rough—push	Swift—quick	Blossom—flower
Citizen—man	Blue—color	Afraid—fright
Foot—body	Hungry—appetite	
Spider—insect	Priest—scholar	

CASE No. 5635. J. D. 13 individual reactions, of which 6 are classed as normal, 1 particle, 6 unclassified, mostly obviously normal.

Table—eating	Needle—sticking	Ocean—bathing
Dark—night	Red—danger	Head—mind
Music—amusement	Sleep—rest	Stove—fire
Sickness—distress	Anger—right	Long—hours
Man—working	Carpet—house	Religion—church
Deep—sorrow	Girl—out	Whiskey—drinking
Soft—easy	High—air	Child—home
Eating—supper	Working—labor	Bitter—sour
Mountain—pleasure	Sour—bitter	Hammer—working
House—home	Earth—ground	Thirsty—dry
Black—grief	Trouble—worry	City—New York
Mutton—butchers	Soldier—man	Square—block
Comfort—home	Cabbage—farmer	Butter—cow
Hand—shake	Hard—bath	Doctor—hospital
Short—baseball	Eagle—birds	Loud—speaking
Fruit—eating	Stomach—body	Thief—sentence
Butterfly—field	Stem—pipe	Lion—animal
Smooth—soft	Lamp—burn	Joy—pleasure
Command—oblige	Dream—thinking	Bed—sleeping
Chair—seat	Yellow—color	Heavy—weight
Sweet—flowers	Bread—eating	Tobacco—smoking
Whistle—fire	Justice—peace	Baby—home
Woman—home	Boy—soldier	Moon—night
Cold—winter	Light—day	Scissors—cutting
Slow—easy	Health—happy	Quiet—alone
Wish—home	Bible—books	Green—color
River—dock	Memory—good	Salt—eating
White—day	Sheep—lamb	Street—walking
Beautiful—handsome	Bath—washing	King—William
Window—glass	Cottage—house	Cheese—milk
Rough—wagon	Swift—quick	Blossom—flower
Citizen—voter	Blue—color	Afraid—fright
Foot—walking	Hungry—eating	
Spider—web	Priest—church	

Our cases of *alcoholic dementia* are clinically without evidences of disturbance of flow of thought. The dementia consists mainly

in impairment or loss of the power of retention, with resulting amnesia for recent occurrences, and temporal disorientation. The records are either normal or show but slight departures from normal.

CASE No. 6369.—J. S. Slight deterioration.

Table—eat	Needle—sticking	19	Ocean—vessels	2
Dark—night	Red—color		Head—knowledge	
Music—enjoyment	Sleep—happy	1	Stove—burn	
Sickness—sadness	Anger—annoyance		Long—time	
Man—work	Carpet—walk		Religion—faith	
Deep—hole	Girl—school		Whiskey—drink	
Soft—feathers	High—skies		Child—infant	
Eating—appetite	Working—labor		Bitter—unkind	17
Mountain—hill	Sour—lemon		Hammer—nail	
House—live	Earth—walk		Thirsty—dry	
Black—dark	Trouble—annoyance		City—inhabitants	
Mutton—eat	Soldier—army		Square—brick	
Comfort—pleasant	Cabbage—eat		Butter—eat	
Hand—work	Hard—stone		Doctor—cure	
Short—story	Eagle—fly		Loud—noise	
Fruit—eat	Stomach—victuals	17	Thief—steal	
Butterfly—annoyance	Stem—pipe		Lion—animal	
Smooth—iron	Lamp—burn		Joy—happiness	1
Command—officer	Dream—sleep		Bed—lay	
Chair—sit	Yellow—orange		Heavy—feeling	2
Sweet—nice	Bread—eat		Tobacco—chew	
Whistle—pleasure	Justice—person	1	Baby—nurse	
Woman—pleasure	Boy—school		Moon—bright	
Cold—annoyance	Light—see		Scissors—cut	
Slow—car	Health—comfort		Quiet—ease	
Wish—like	Bible—read		Green—flower	
River—water	Memory—recollection		Salt—taste	
White—sack	Sheep—eat		Street—walking	
Beautiful—house	Bath—cleanness		King—control	19
Window—look	Cottage—live		Cheese—eat	
Rough—unpleasant	Swift—go		Blossom—flower	
Citizen—man	Blue—color		Afraid—nervousness	
Foot—walk	Hungry—eat			
Spider—annoyance	Priest—confession			

CASE No. 6418.—J. R. Marked deterioration.

Table—mahogany	Needle—darning		Ocean—Pacific	17
Dark—dawn	Red—apples		Head—oval	19
Music—harp	Sleep—plenty		Stove—polish	
Sickness—none	Anger—mistake	17	Long—forever	12
Man—white	Carpet—floor		Religion—Protestant	
Deep—unfathomable	Girl—pretty	1	Whiskey—none	
Soft—silken	High—ordinary	19	Child—none	5
Eating—good	Working—eight	12	Bitter—sweet	
Mountain—high	Sour—nonsense	19	Hammer—no	12
House—place	Earth—fruits	2	Thirsty—no	5
Black—color	Trouble—little		City—New York	
Mutton—cooked	Soldier—patriot		Square—compass	
Comfort—rest	Cabbage—garden		Butter—sweet	
Hand—clasp	Hard—wood		Doctor—cure	
Short—small	Eagle—high		Loud—quietly	2
Fruit—apples	Stomach—leave	19	Thief—jail	
Butterfly—buttercups	Stem—stalk		Lion—brave	
Smooth—iron	Lamp—kerosene		Joy—peacefulness	2
Command—home	Dream—happy	1	Bed—good	1
Chair—ebony	Yellow—aster	17	Heavy—no	
Sweet—potatoes	Bread—white		Tobacco—yes	12
Whistle—song	Justice—right		Baby—none	6
Woman—pretty	Boy—white	15	Moon—shines	
Cold—depressed	Light—white		Scissors—uncut	2
Slow—process	Health—good	1	Quiet—peaceful	
Wish—home	Bible—puzzled	19	Green—grass	
River—Mississippi	Memory—bad	1	Salt—water	
White—wings	Sheep—cheviot	17	Street—Queen	17
Beautiful—palace	Bath—marble	17	King—unknown	19
Window—clear	Cottage—story	17	Cheese—Stilton	17
Rough—no	Swift—fast		Blossom—cherry	
Citizen—patriot	Blue—waist	17	Afraid—not	
Foot—heath	Hungry—not	2		
Spider—none	Priest—confessor			

We reproduce in full the record obtained from one of our cases of *senile dementia*.

CASE No. 5788.—E. S.

Table—cat	6	Needle—pin		Ocean—river	
Dark—night		Red—white		Head—life	
Music—cat	2	Sheep—eyes		Stove—fire	
Sickness—cat	5	Anger—mad		Long—short	
Man—mouse	18	Carpet—cloth		Religion—Catholic	
Deep—well		Girl—boy		Whiskey—drink	
Soft—sack	19	High—low		Child—boy	
Eating—well		Working—sawing		Bitter—sweet	
Mountain—hill		Sour—sweet		Hammer—noise	
House—castle		Earth—clay		Thirsty—drink	
Black—dog		Trouble—cold	15	City—New York	
Mutton—sheep		Soldier—man	1	Square—Marion	17
Comfort—lamb	13	Cabbage—spinach		Butter—cow	
Hand—chicken	18	Hard—cut	6	Doctor—W.	17
Short—light	19	Eagle—bird		Loud—noise	
Fruit—apple		Stomach—belly		Thief—steals	
Butterfly—fly		Stem—pike	17	Lion—heart	
Smooth—iron		Lamp—globe		Joy—happy	1
Command—obey		Dream—eye		Bed—mattress	
Chair—stool		Yellow—flower		Heavy—load	
Sweet—sugar		Bread—flour		Tobacco—smoke	
Whistle—lump	14	Master—right		Baby—boy	
Woman—man	1	Box—cut	6	Moon—shine	
Cold—shiver		Light—lamp		Scissors—cut	
Slow—cold	7	Health—rough	17	Quiet—noisy	
Wish—push	19	Bible—book		Green—color	
River—pond		Memory—mind		Salt—bitter	
White—cat		Sheep—lamb		Street—place	
Beautiful—cat	5	Bath—water		King—rule	
Window—glass		Cottage—house		Cheese—taste	
Rough—tight	19	Swift—quick		Mosses—flower	
Citizen—tough		Blue—color		Afraid—trouble	
Foot—shoe		Hungry—eat			
Spider—clock	19	Priest—clergyman			

§ 8. PATHOLOGICAL REACTIONS FROM NORMAL SUBJECTS.

Mental disorders do not always so manifest themselves as to incapacitate the subject for his work or to necessitate his sequestration in a hospital for the insane. It is, therefore, not surprising that in applying the association test to over a thousand subjects selected at random we have obtained a small number of test records which show various types of abnormal reactions. Among the subjects who furnished such records some are described as eccentric, taciturn, or dull, while others are apparently normal but come of neuropathic stock. A few of them are persons wholly unknown to us.

We reproduce in full several records from the normal series, containing abnormal reactions.

CONSECUTIVE No. 746.—State hospital attendant. Efficient in his work but is generally regarded to have married very foolishly. Sound reactions; numerous unclassified reactions.

Table—brought	19	Needle—knee	10	Ocean—oar	10
Dark—some	19	Red—roam	19	Head—him	12
Music—leaf	19	Sleep—sorrow	19	Stove—still	10
Sickness—water	19	Anger—August	19	Long—left	15
Man—book	19	Carpet—covered	2	Religion—rest	19
Deep—desk	19	Girl—great	9	Whiskey—whirl	15
Soft—ground	19	High—his	12	Child—charge	19
Eating—bark	19	Working—map	19	Bitter—bought	10
Mountain—tree	19	Sour—slur	10	Hammer—hemp	10
House—paper	19	Earth—eat	19	Thirsty—Thursday	10
Black—light	19	Trouble—through	12	City—salt	10
Mutton—horse	13	Soldier—solder	10	Square—squirrel	10
Comfort—hat	19	Cabbage—cart	19	Butter—bread	10
Hand—sick	13	Hard—him	12	Doctor—daisy	19
Short—swallow	19	Eagle—earth	13	Loud—lark	19
Fruit—mass	19	Stomach—stall	10	Thief—twist	19
Butterfly—leaf	15	Stem—stair	10	Lion—lesson	10
Smooth—wing	13	Lamp—left	19	Joy—jar	19
Command—man	1	Dream—dread	19	Bed—beard	10
Chair—left	19	Yellow—waist	15	Heavy—health	10
Sweet—sick	2	Bread—book	15	Tobacco—toboggan	10
Whistle—whirl	10	Justice—gem	19	Baby—bird	15
Woman—where	12	Boy—bird	19	Moon—mill	19
Cold—coal	19	Light—left	10	Scissors—setters	10
Slow—some	15	Health—heart	17	Quiet—quart	10
Wish—whirl	15	Bible—base	19	Green—great	9
River—rice	19	Memory—moth	19	Salt—sorrow	10
White—waist	19	Sheep—shrill	19	Street—stem	10
Beautiful—brought	15	Bath—bend	19	King—cart	15
Window—women	10	Cottage—cart	10	Cheese—chart	19
Rough—row	19	Swift—swell	10	Blossom—hed	19
Citizen—sir	10	Blue—beard	11	Afraid—frill	10
Foot—fall	19	Hungry—heart	15		
Spider—spice	10	Priest—path	19		

CONSECUTIVE No. 220.—Laundryman in State hospital. Nothing abnormal has ever been observed in his case. Numerous perseverations.

Table—house	19	Needle—thread	19	Ocean—rice	19
Dark—range	19	Red—spool	18	Head—eyes	19
Music—cats	19	Sleep—machine	18	Stove—nose	18
Sickness—dog	18	Anger—picture	19	Long—mouth	18
Man—barn	19	Carpet—bed	17	Religion—legs	18
Deep—hollow	19	Girl—bureau	18	Whiskey—arms	18
Soft—apple	19	High—oilcloth	18	Child—elbows	18
Eating—cranberry	17	Working—pen	19	Bitter—day	19
Mountain—water	17	Sour—ink	18	Hammer—nails	19
House—pig	19	Earth—paper	18	Thirsty—saw	13
Black—rats	18	Trouble—chair	19	City—plane	18
Mutton—mice	2	Soldier—table	14	Square—chisel	18
Comfort—sheep	13	Cabbage—beet	19	Butter—file	18
Hand—lamb	14	Hard—cauliflower	18	Doctor—duck	10
Short—birds	19	Eagle—potatoes	18	Loud—goose	18
Fruit—peach	19	Stomach—beans	17	Thief—robber	19
Butterfly—pears	18	Stem—plum	17	Lion—tiger	19
Smooth—grapes	18	Lamp—wick	19	Joy—bear	13
Command—nut	18	Dream—oil	13	Bed—leopard	18
Chair—bureau	19	Yellow—stick	19	Heavy—tiger	15
Sweet—broom	19	Bread—stone	18	Tobacco—smoke	19
Whistle—violin	19	Justice—dirt	18	Baby—pipe	18
Woman—man	1	Boy—street	19	Moon—star	19
Cold—child	10	Light—match	19	Scissors—sharp	19
Slow—infant	14	Health—sickness	19	Quiet—noisy	19
Wish—night	19	Bible—book	19	Green—blue	19
River—dark	19	Memory—leaf	18	Salt—yellow	13
White—steamboat	17	Sheep—wool	19	Street—green	14
Beautiful—tugboat	18	Bath—water	19	King—purple	14
Window—yacht	18	Cottage—people	1	Cheese—axe	19
Rough—ferry	18	Swift—fast	19	Blossom—handle	19
Citizen—water	18	Blue—residence	19	Afraid—barn	19
Foot—egg	19	Hungry—beef	17		
Spider—fly	19	Priest—clergyman	19		

CONSECUTIVE No. 255.—State hospital attendant. Efficient, but unusually taciturn and seclusive. Sound reactions.

Table—linen	Needle—work	1	Ocean—apple	19
Dark—sunshine	Red—robe	19	Head—heart	1
Music—song	Sleep—soap	10	Stove—strap	10
Sickness—Saturday	Anger—angel	19	Long—love	15
Man—manager	Carpet—carriage	19	Religion—belief	10
Deep—dark	Girl—guide	19	Whiskey—whisk broom	10
Soft—sorrowful	High—heart	10	Child—chap	10
Eating—eighty	Working—worthy	10	Bitter—butter	10
Mountain—miner	Sour—satchel	19	Hammer—habit	19
House—heart	Earth—early	10	Thirsty—thirty	10
Black—blue	Trouble—trout	19	City—soap	15
Mutton—mountain	Soldier—socket	19	Square—squirrel	10
Comfort—company	Cabbage—currant	17	Butter—bank	19
Hand—happy	Hard—harmful	10	Doctor—dentist	10
Short—slow	Eagle—early	15	Loud—laugh	10
Fruit—froth	Stomach—stable	10	Thief—thump	19
Butterfly—butter	Stem—stand	10	Lion—lump	19
Smooth—smoke	Lamp—light	10	Joy—jump	19
Command—company	Dream—drunk	10	Bed—bank	15
Chair—chap	Yellow—lustre	19	Heavy—happy	10
Sweet—slow	Bread—brand	10	Tobacco—tub	19
Whistle—whip	Justice—judgment	10	Baby—bundle	10
Woman—worried	Boy—butter	15	Mock—mantle	10
Cold—cow	Light—love	19	Scissors—Saturday	15
Slow—slap	Health—help	10	Quiet—quarter	10
Wish—water	Bible—book	10	Green—drought	19
River—rubbed	Memory—mental	10	Salt—Saturday	10
White—wash	Sheep—shop	10	Street—straight	10
Beautiful—bounty	Bath—bandage	10	King—cattle	19
Window—light	Cottage—cot	10	Cheese—captain	19
Rough—rognish	Swift—swan	10	Blossom—bandage	15
Citizen—sight-seeing	Blue—black	10	Afraid—flattered	10
Foot—fool	Hungry—height	19		
Spider—span	Priest—house	10		

CONSECUTIVE No. 442.—Nothing abnormal has ever been suspected in the case of this subject; mother eccentric; sister insane. Sound reactions.

Table—stable	Needle—needless	10	Ocean—over	12
Dark—dreary	Red—color	10	Head—large	1
Music—joy	Sleep—sleet	10	Stove—stone	10
Sickness—silliness	Anger—rough	10	Long—heavy	19
Man—manner	Carpet—carpenter	10	Religion—goodness	1
Deep—dreary	Girl—going	19	Whiskey—strong	10
Soft—sooth	High—air	10	Child—small	1
Eating—evening	Working—tolling	10	Bitter—butter	10
Mountain—morning	Sour—shower	10	Hammer—hard	10
House—help	Earth—eating	19	Thirsty—thrifty	10
Black—dark	Trouble—loneliness	17	City—seeing	10
Mutton—mitten	Soldier—solid	10	Square—squirrel	10
Comfort—come	Cabbage—carrying	19	Butter—bitter	10
Hand—handsome	Hard—hardly	8	Doctor—dark	10
Short—small	Eagle—eating	10	Loud—noisy	10
Fruit—first	Stomach—starch	10	Thief—stealing	10
Butterfly—butter	Stem—step	2	Lion—eating	10
Smooth—sooth	Lamp—glass	10	Joy—joyous	8
Command—come	Dream—dreary	10	Bed—sleep	10
Chair—air	Yellow—yonder	12	Heavy—weightful	4
Sweet—good	Bread—bed	10	Tobacco—cocoa	10
Whistle—music	Justice—juice	10	Baby—boys	2
Woman—wonder	Boy—hall	10	Moon—moo	3
Cold—freezing	Light—likeness	10	Scissors—successors	10
Slow—snow	Health—help	10	Quiet—easy	10
Wish—wind	Bible—book	10	Green—grass	10
River—riffle	Memory—memorial	2	Salt—simmer	19
White—wait	Sheep—sleep	10	Street—steep	10
Beautiful—handsome	Bath—battle	10	King—kingdom	10
Window—light	Cottage—cotton	10	Cheese—squeeze	10
Rough—harsh	Swift—fast	10	Blossom—blooming	10
Citizen—city	Blue—blind	10	Afraid—Africa	10
Foot—walk	Hungry—hurry	10		
Spider—creep	Priest—prince	10		

CONSECUTIVE No. 314.—School teacher. Efficient; described as very silent. Unclassified reactions, due mostly to distraction.

Table—cat	19	Needle—good	9	Ocean—boat	
Dark—no	12	Red—bad	9	Head—hat	
Music—will	19	Sleep—hinge	19	Stove—ashes	17
Sickness—chair	19	Anger—will	15	Long—short	
Man—table	6	Carpet—paper	6	Religion—peace	
Deep—floor	14	Girl—chair	15	Whiskey—bottle	
Soft—paper	6	High—table	6	Child—dress	
Eating—wood	19	Working—cane	15	Bitter—sour	
Mountain—chair	15	Sour—floor	15	Hammer—teeth	19
House—window		Earth—ceiling	18	Thirsty—dry	
Black—wall		Trouble—chain	19	City—good	1
Mutton—skv	19	Soldier—desk	19	Square—wood	
Comfort—air	18	Cabbage—paper		Butter—best	10
Hand—table		Hard—table		Doctor—shoes	19
Short—paper	6	Eagle—flower	15	Loud—music	
Fruit—sweeping	19	Stomach—match	19	Thief—notes	2
Butterfly—room	18	Stem—match		Lion—strings	19
Smooth—working	2	Lamp—table		Joy—happy	1
Command—stone	19	Dream—chair	14	Bed—wish	13
Chair—machine	19	Yellow—cane	18	Heavy—lead	
Sweet—radiator	19	Bread—flour		Tobacco—plant	
Whistle—clock	19	Justice—peace		Baby—good	1
Woman—cane	19	Boy—window	15	Moon—paper	6
Cold—flower	19	Light—wall	18	Scissors—straw	19
Slow—cord	19	Health—floor	18	Quiet—hoop	19
Wish—marriage	2	Bible—house	18	Green—rope	19
River—chimney	19	Memory—paper	6	Salt—dish	
White—wheel	19	Sheep—dress	19	Street—dirt	
Beautiful—cane	15	Bath—clothes	18	King—bucket	19
Window—pot	19	Cottage—earth	19	Cheese—plate	
Rough—grass	19	Swift—sky	18	Blossom—plant	
Citizen—paper		Blue—trees	19	Afraid—sweeping	15
Foot—closet	19	Hungry—leaves	18		
Spider—awning	19	Priest—bark	18		

CONSECUTIVE No. 216.—State hospital attendant. Incompetent, dull. Numerous non-specific reactions.

Table—rolling	19	Needle—small	1	Ocean—wide	
Dark—swim	19	Red—dark		Head—large	1
Music—playing		Sleep—easy		Stove—black	
Sickness—riding	19	Anger—bad	1	Long—wide	
Man—walk		Carpet—small	1	Religion—good	1
Deep—singing	19	Girl—short	15	Whiskey—strong	
Soft—light		High—long		Child—small	1
Eating—sleep		Working—good	1	Bitter—bad	1
Mountain—low		Sour—bad	1	Hammer—small	1
House—small	1	Earth—large	1	Thirsty—bad	1
Black—dark		Trouble—bad	1	City—big	
Mutton—lean	19	Soldier—good	1	Square—long	
Comfort—good	1	Cabbage—small	6	Butter—good	1
Hand—small	1	Hard—apples	1	Doctor—good	1
Short—small	1	Eagle—small	6	Loud—hearty	19
Fruit—taste		Stomach—good	1	Thief—bad	1
Butterfly—beautiful	1	Stem—short		Lion—bad	5
Smooth—long	6	Lamp—bright		Joy—happy	1
Command—immediate	2	Dream—good	1	Bed—easy	
Chair—small	6	Yellow—light		Heavy—stone	
Sweet—clear	19	Bread—good	1	Tobacco—strong	
Whistle—long		Justice—good	1	Baby—small	1
Woman—small	1	Boy—small	1	Moon—large	1
Cold—long	6	Light—clear		Scissors—sharp	
Slow—write	2	Health—good	1	Quiet—baby	
Wish—quick	10	Bible—true		Green—dark	
River—long		Memory—good	1	Salt—strong	10
White—clean		Sheep—many		Street—wide	
Beautiful—nice	1	Bath—good	1	King—high	
Window—big	19	Cottage—large	1	Cheese—good	1
Rough—bad	1	Swift—fast		Blossom—apples	
Citizen—short	19	Blue—dark		Afraid—he	12
Foot—small	1	Hungry—long	6		
Spider—small	1	Priest—true	19		

CONSECUTIVE No. 318.—School boy. Non-specific reactions.

Table-board	Needle-sharp	Ocean-big
Dark-night	Red-crimson	Head-little
Music-sound	Sleep-wake	Stove-hot
Sickness-pleasantness .. 9	Anger-mad	Long-distance
Man-people	Carpet-floor	Religion-good
Deep-river	Girl-good	Whiskey-bad
Soft-cat	High-tall	Child-cute
Eating-pleasantness .. 1	Working-sleep	Bitter-good
Mountain-high	Sour-bad	Hammer-hard
House-home	Earth-ground	Thirsty-hard
Black-dark	Trouble-bad	City-good
Mutton-good	Soldier-good	Square-round
Comfort-pleasure .. 1	Cabbage-bad	Butter-soft
Hand-foot	Hard-soft	Doctor-good
Short-little	Eagle-bird	Loud-noisy
Fruit-good	Stomach-ache	Thief-good
Butterfly-pretty .. 1	Stem-slender	Lion-big
Smooth-soft	Lamp-light	Joy-good
Command-go	Dream-good	Bed-comfortable
Chair-sit	Yellow-pretty	Heavy-light
Sweet-good	Bread-good	Tobacco-bad
Whistle-noise	Justice-good	Baby-pretty
Woman-pretty	Boy-fun	Moon-cute
Cold-bad	Light-see	Sadness-sharp
Slow-quick	Wealth-happiness	Quiet-loud
Wish-good	Bible-good	Green-pretty
River-deep	Memory-good	Salt-good
White-snow	Sheep-pretty	Street-narrow
Beautiful-pretty .. 1	Bath-good	King-good
Window-look	Cottage-pretty	Cheese-good
Rough-even	Swift-quick	Blossom-pretty
Citizen-good	Blue-yellow	Afraid-scared
Foot-hand	Hungry-eat	
Spider-bite	Priest-good	

CONSECUTIVE No. 234.—School boy. Non-specific reactions.

Table-chair	Needle-thick	Ocean water
Dark-cold	Red-cow	Head large
Music-sweet	Sleep-dreams	Stove fire
Sickness-hard	Anger-very	Long snake
Man-wise	Carpet-pretty	Religion-Jesus
Deep-dark	Girl-small	Whiskey-temperance ..
Soft-sweet	High-tree	Child healthy
Eating-drinking	Working-hard	Bitter-apple
Mountain-snow	Sour-bitter	Hammer nail
House-great	Earth-great	Thirsty water
Black-horse	Trouble hard	City-houses
Mutton-good	Soldier brave	Square desk
Comfort-health	Cabbage good	Butter-yellow
Hand-foot	Hard-stone	Doctor medicine
Short-fat	Eagle great	Loud harsh
Fruit-good	Stomach-weak	Thief wicked
Butterfly-pretty .. 1	Stem watch	Lion fierce
Smooth-hard	Lamp pretty	Joy-happiness
Command-general	Dream-sweet	Bed-rest
Chair-soft	Yellow-buttercup	Heavy-tone
Sweet-good	Bread-flour	Tobacco dirty
Whistle-loud	Justice-man	Baby-small
Woman-large	Boy-gun	Moon-sky
Cold-dreary	Light-bright	Sadness-sharp
Slow-hard	Health-care	Quiet-lonely
Wish-fairy	Bible-holy	Green-sour
River-large	Memory-poor	Salt cows
White-snow	Sheep-pretty	Street people
Beautiful-woman .. 1	Bath-nice	King rich
Window-large	Cottage low	Cheese yellow
Rough-hard	Swift-stream	Blossom-pretty
Citizen-good	Blue-bluebird	Afraid-fear
Foot-small	Hungry-tired	
Spider-ugly	Priest-church	

CONSECUTIVE No. 809.—Lawyer. 28 individual reactions, of which 14 are classed as normal; 10 are unclassified, most of which are also obviously normal.

Table—chair	Needle—tailor	Priest—surplice
Dark—candle	Red—flannel	Ocean—ship
Music—girl	Sleep—	Head—hair
Sickness—doctor	potassium bromide. 17	Stove—shovel
Man—woman	Anger—teacher	Long—pole
Deep—swimming	Carpet—tack	Religion—Abraham
Soft—hand	Girl—belt	Whiskey—Kentucky
Eating—Reisenweber	High—pole	Child—baby
Mountain—Kipling	Working—laborer	Bitter—pepper
House—mortgage	Sour—apple	Hammer—nail
Black—spectrum	Earth—Columbus	Thirsty—lemonade
Mutton—pig	Trouble—lawyer	City—Manhattan
Comfort—chair	Soldier—gun	Square—Washington
Hand—ring	Cabbage—plantation	Butter—salt
Short—tall	Hard—brick	Doctor—nurse
Fruit—banana	Eagle—feathers	Loud—hammer
Butterfly—color	Stomach—juice	Thief—jewelry
Smooth—sphere	Stem—leaf	Lion—Androcles
Command—soldier	Lamp—light	Joy—automobile
Chair—teacher	Dream—pillow	Bed—shoes
Sweet—apple	Yellow—lemon	Heavy—Flannigan
Whistle—policeman	Bread—crust	Tobacco—pipe
Woman—hat	Justice—judge	Baby—wife
Cold—thermometer	Boy—panta	Moon—man
Slow—invalid	Light—gas	Scissors—cut
Wish—million	Health—medicine	Quiet—demure
River—Hudson	Bible—Jacob	Green—eyes
White—Broadway	Memory—brain	Salt—cellar
Beautiful—girl	Sheep—wool	Street—Wall
Window—school	Bath—soap	King—Edward
Rough—ball	Cottage—rod	Cheese—Roquefort
Citizen—justice	Swift—ball	Blossom—field
Foot—shoe	Blue—sky	Afraid—burglar
Spider—insect	Hungry—I	

§ 9. NUMBER OF DIFFERENT WORDS GIVEN AS REACTIONS.

It has been suggested by Fuhrmann¹ that the number of different words given in response to one hundred selected stimulus words may be used as “a fairly reliable measure of the intelligence and degree of education of a patient.” The test according to Fuhrmann is applied twice in every case, the interval between the two sittings being at least four weeks. “In very intelligent and well educated persons every 100 stimulus words almost always evokes in the first test 95—100 different associations; in the less intelligent and in the feeble-minded the same associations are more frequently repeated. In the second test with the same stimulus words—which is really much more important than the first, since even persons of inferior intelligence may reach higher numbers in the first test—the difference in the wealth of the stock of representations becomes plainly evident:

¹ Diagnostik und Prognostik der Geisteskrankheiten, p. 93. Leipzig, 1903.

the man of intelligence will not need to draw on the associations which he gave in the first test, but will produce new ones; the feeble-minded subject will, on the contrary, repeat to a greater or lesser extent the associations of the first test." "In general the associational capacity of an adult person may be taken to be from 80 per cent to 90 per cent. Should the number sink below 70 per cent the suspicion of a pathological condition must then arise; and the higher the subject's degree of education the stronger is this suspicion. In the case of an associational capacity of 60 per cent or less no doubt of its pathological significance can remain any longer."

Our results are not strictly comparable with Fuhrmann's, because we have obtained but one test record from each subject; it may be said, however, that the results of a single test in each case do not show any considerable differences, corresponding to education or age, in the variety of responses. Further, dementing psychoses, with the exception of epilepsy, show on the whole no diminution in the number of different reactions, although in individual cases this number falls considerably below the general average; and in such cases the diminution may be dependent upon stereotypy or perseveration, and not necessarily upon reduction in the stock of representations.

It would appear from our results that pathological mental states are apt to manifest themselves by a tendency to give reactions belonging to types of inferior values rather than by diminished variety of responses.

We show in Table VI. the numbers of different responses given by our groups of normal and insane subjects, expressed in figures giving for each group the median and the average.

TABLE VI.

	Med.	Av.
86 normal subjects, common school education; records containing not over 10 individual reactions	85	84.5
66 normal subjects, collegiate education; records containing not over 10 individual reactions	87	86.5
48 normal subjects, school children; records containing not over 10 individual reactions	87	84.9
53 normal subjects; records containing not under 15 individual reactions...	90	88.7
108 cases of dementia præcox	87	84.1
33 cases of paranoic conditions.....	89	86.5
24 cases of epilepsy.....	78½	75.8
32 cases of general paresis.....	84½	82.1
32 cases of manic-depressive insanity.....	87	85.1

§ 10. CO-OPERATION OF THE SUBJECT.

In our work with insane subjects we encountered many cases in which we were unable to obtain satisfactory test records owing to lack of proper co-operation. Some subjects seemed to be either too confused or too demented to be capable of understanding and following the instructions given them. Others were for one reason or another unwilling to co-operate. It is important to distinguish inability from unwillingness to co-operate, since the former indicates in itself an abnormal state of the mind, while the latter is quite often shown by normal persons.

A subject may co-operate to the extent of giving a single word in response to each stimulus word, and yet fail to co-operate in some other particulars.

He may, instead of giving the first word suggested to him by the stimulus, suppress the first word more or less systematically, and give some other word which may seem to him more appropriate. This probably occurs very often, but does not seem to render the results less serviceable for our purpose.

Further, a subject may react by words related not to the stimulus words, but to each other, thus simulating perseveration; or he may react by naming objects within reach of the senses, thus appearing to be distracted; or he may give only sound reactions.

There is, in fact, no type of pathological reactions which a normal person may not be able to produce more or less readily at will, though in the case of incoherent reactions considerable mental effort may be required, and the end may be attained only by regularly rejecting the first and some subsequent words which are suggested by the stimulus.

In view of these considerations we are led to conclude that the association test, as applied by our method, could not be relied upon as a means of detecting simulation of insanity in malingerers, criminals, and the like.

§ 11. SUMMARY.

The normal range of reaction in response to any of our stimulus words is largely confined within narrow limits.

The frequency tables compiled from test records given by one thousand normal subjects comprise over ninety per cent of the normal range in the average case.

With the aid of the frequency tables and the appendix normal reactions, with a very few exceptions, can be sharply distinguished from pathological ones.

The separation of pathological reactions from normal ones simplifies the task of their analysis, and makes possible the application of a classification based on objective criteria.

By the application of the association test, according to the method here proposed, no sharp distinction can be drawn between mental health and mental disease; a large collection of material shows a gradual and not an abrupt transition from the normal state to pathological states.

In dementia præcox, some paranoic conditions, manic-depressive insanity, general paresis, and epileptic dementia the test reveals some characteristic, though not pathognomonic, associational tendencies.

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THE FREQUENCY TABLES.

1. TABLE

1 accommodation	2 dine	1 kitchen	1 operating	1 stable
3 article	4 dining		2 ornament	36 stand
1 articles	26 dinner	1 lamp		3 stool
	5 dish	4 large	1 parlor	1 straight
1 basket	40 dishes	1 leaf	1 pitcher	1 strong
9 bench	1 dissection	1 leaves	4 plate	1 supper
14 board	1 dog	1 library	1 plates	
7 book		13 leg	1 plateau	1 tablecloth
5 books	63 eat.	10 legs	1 polished	1 tea
1 boy	1 eatables	2 linen		1 timber
1 bread	34 eating	1 long	1 refreshments	2 top
2 breakfast		2 low	3 rest	1 typewriter
2 broad	1 ferns		3 room	
1 brown	1 fête	1 Mabel	10 round	2 use
1 butter	5 flat	2 mahogany		3 useful
	7 floor	1 mat	1 school	1 utensil
2 cards	20 food	6 meal	1 serviceable	
1 celery	1 fork	4 meals	2 set	2 victuals
1 center	1 forin	2 meat	1 shiny	
267 chair	75 furniture	1 mess	3 sit	1 wagon
7 chairs			2 sitting	1 whisk
1 chemical	1 glass	2 nails	1 slab	1 white
37 cloth		1 napkin	1 smooth	1 wire
1 cockroaches	9 hard	1 number	1 soup	76 wood
1 comfort	1 hat		1 spiritualism	1 wooden
17 cover	2 home	1 oak	6 spoon	2 work
1 cutlery	3 house	1 object	2 spread	1 working
		1 old	9 square	2 write
11 desk	1 ink			6 writing

2. DARK

6 afraid	2 cold	2 fair	427 light	1 scare
	28 color	6 fear	1 lonely	1 shades
1 baby	1 colored	1 fearful	1 lonesome	2 shadow
1 bad	1 colorless	1 fearsome	1 lonesomeness	1 shadows
1 barks	1 coon	2 fright		1 sky
76 black	1 curly		1 mahogany	1 sleep
2 blackness		1 ghost	4 man	1 sleeping
1 blank	1 day	1 ghosts	1 mice	1 space
2 blind	1 daylight	6 gloom	1 midnight	1 starry
2 blindness	1 dead	11 gloomy	6 moon	2 stars
5 blue	1 denseness	1 gray	1 moonlight	1 stillness
1 board	3 dim	1 green	1 mysterious	1 storm
1 boat	3 dithness	1 ground		1 stumbling
15 bright	2 dingy		1 nice	1 subject
4 brightness	3 dismal	5 hair	221 night	1 sunlight
4 brown	1 dog	1 hall		
	1 door	1 hell	1 oblivion	1 thunder
1 candle	1 dreary	1 hole	1 obscure	1 tree
1 cart	4 dress	3 horse		1 twilight
2 cat	5 dungeon	2 house	1 parlor	
1 cell	1 dusk		1 prison	1 unseen
6 cellar	1 dusky	1 illumination		
1 close		2 invisible	5 red	1 walk
1 closet	4 evening		3 rest	3 weather
2 cloud	1 eye	1 lamp	22 room	9 white
2 clouds	2 eyes	1 lantern		1 woods
3 cloudy				

3. MUSIC

1 accordion	17 dance	1 harmonious	1 noisy	12 sing
3 air	1 dances	43 harmony	2 note	1 singer
1 amuse	15 dancing	1 hear	17 notes	48 singing
10 amusement	2 delight	2 heaven		1 soft
7 art	2 delightful	1 hurdygurdy	5 opera	1 softness
1 attention	3 discord	1 hymn	5 orchestra	1 solemn
1 attraction	1 drama		6 organ	68 song
		1 idealism		6 songs
6 hand	3 ear	21 instrument	2 paper	2 soothing
1 bassviol	1 ecstasy	5 instruments	1 pastime	95 sound
7 beautiful	1 elevating	1 instrumental	180 piano	2 sounds
2 beauty	1 enchantment		2 pianola	2 stool
7 Beethoven	1 enjoyable	1 jolly	1 pitch	1 strain
1 bell	1 enjoyed	11 joy	7 play	2 strains
1 bird	13 enjoyment	1 joyful	8 playing	1 string
1 birds	5 entertaining		10 pleasant	2 study
1 book	3 entertainment	1 lesson	1 pleasantness	47 sweet
2 books	1 entrancing	1 light	6 pleasing	6 sweetness
2 box		1 line	31 pleasure	4 symphony
1 brightness	1 feeling	1 liveliness	1 poem	
	1 fiddle	1 lonely	4 poetry	2 talent
1 captivating	2 fine	1 loud	1 practice	6 teacher
1 cats	1 flowers	2 love	4 pretty	1 teaching
1 charm	1 flute		1 pupils	1 thought
1 charms	1 fun	1 man		2 time
2 charming		1 meditation	1 quiet	3 tone
2 cheerful	2 gaiety	24 melody		1 town
2 cheerfulness	1 gay	1 Mendelssohn	1 rack	2 tune
1 Chopin	1 genius	1 Merry Widow	1 racket	
1 chord	2 girl	1 Mozart	1 rhyme	21 violin
1 chords	1 gladness	1 Mr. H.	2 roll	2 voice
1 clarinette	1 Goethe	1 Mrs. E.	1 room	
1 classic	3 good	3 musician		2 Wagner
2 classical	1 guitar	1 mute	2 sadness	1 wavy
2 composer			1 scale	1 window
1 company	2 hall	6 nice	2 Schubert	1 words
2 concert	5 happiness	1 nocturne	1 score	1 worship
1 conductor	2 happy	16 noise	5 sheet	
			1 sheets	1 Yankee Doodle

4. SICKNESS

1 affliction	2 disabled	2 home	1 operation	2 sorry
1 age	3 discomfort	1 horrible	1 oranges	1 stomach
3 ailing	20 disease	9 hospital		2 strength
2 ailment	4 distress		30 pain	1 suffer
1 air	62 doctor	48 ill	1 painful	12 suffering
1 anxiety	1 dread	71 illness	2 pale	1 summer
3 appendicitis	1 dreariness	1 incompetence	7 patient	2 sympathy
1 aunt		1 inconvenience	1 patients	
	1 enjoyed	1 indisposition	1 people	1 terror
1 baby	1 ether	1 infirmary	1 person	1 together
15 bad	1 exhaustion	1 insanity	7 physician	20 trouble
54 bed		2 invalid	1 pill	1 trying
1 Bertha	1 family		1 pills	6 typhoid
1 better	3 father	1 K.	1 plague	
1 body	1 fear	1 low	1 pleasantness	2 uncomfortable
1 business	4 feeble	1 lying	5 pneumonia	1 unhappiness
	1 feel		1 poverty	1 unhappy
1 calamity	1 feeling	2 melody	1 quiet	4 unhealthy
1 care	9 fever	1 man	1 quietness	5 unpleasant
2 child	1 fevers	3 measles		2 unpleasant
1 cold	1 fracture	1 medication	2 recovery	11 unwell
1 condition	1 fright	20 medicine	1 relapsing	1 want
3 consumption		1 melancholy	1 rheumatism	1 weak
2 contagious	1 gloom	1 mine	1 room	11 weakness
1 convalescence	1 gravel	2 miserv		2 wealth
2 convalescing	2 grief	3 misfortune	7 sad	1 weariness
3 cure	1 grunting	3 mother	9 sadness	1 weary
			3 serious	40 well
1 danger	2 hard	2 nervousness	4 severs	1 white
115 death	1 hatefulness	1 neuralgia	1 sigh	1 worried
1 dietary	5 headache	15 nurse	1 sore	1 worriment
3 diphtheria	— 142 health	2 nursing	24 sorrow	
1 disability	4 healthy			

5. MAN

2 adult	1 companion	1 homely	6 masculine	1 self
1 affection	1 company	1 horrible	1 mason	4 sex
1 age	1 coon	4 horse	1 mind	1 shirt
1 alive	1 crank	1 house	1 might	1 shoes
12 animal	8 creature	22 human	1 minister	1 short
1 animals	1 cross	1 humanity	1 minor	1 smoking
1 animate		4 husband	1 misery	1 stern
2 appearance	1 devil		1 money	1 stout
	2 doctor	1 individual	1 monkey	1 street
1 baby	1 dress	1 insane	1 Mr. D.	32 strength
2 bad		1 institution	1 Mr. H.	8 strong
1 beard	1 educator	1 intellectual	1 Mr. N.	1 sweetheart
2 breast	1 existence	1 intelligent	8 Mr. S.	
19 being			1 muscular	1 Taft
3 biped	1 fakir	1 janitor		12 tall
1 blond	1 false	1 Joe	1 N.	1 thought
3 body	1 family		1 nature	6 trousers
44 boy	15 father	1 labor	1 Ned	1 true
1 brain	3 female	2 laborer	1 nice	
1 bright	2 flesh	7 lady	3 noble	1 unfeminine
1 brightness	2 form	11 large	1 nuisance	1 use
3 brother	1 fraud	4 life		
1 brotherhood	1 Fred	1 light	1 out	1 V.
1 brute	2 friend	1 limb		1 voter
1 bum		2 living	1 papa	
6 business	1 gentle	1 lord	1 passion	1 walk
	7 gentleman	1 love	2 people	1 wedding
3 cane	6 girl		30 person	1 whiskers
1 certain	1 glacier	1 machine	1 pleasure	5 wife
2 Charles	10 good	1 maiden	2 policeman	1 wise
10 child	1 greatness	90 male	1 politician	304 woman
2 children	1 grown	1 mammal	5 power	17 work
1 Christian	1 growth	1 manhood	1 professor	1 works
1 clergyman		5 mankind	1 prosperity	1 worker
7 clothes	1 hair	1 manliness	1 provider	3 working
2 clothing	7 hat	2 manly		
3 coat	2 help	1 marriage	1 Roosevelt	2 young
1 comfort	1 home	1 married	1 ruler	

6. DEEP

3 abyss	4 darkness	1 heavy	1 precipice	1 story
1 altitude	1 dense	5 height	4 profound	1 strong
1 around	31 depth	37 high		1 study
	1 depths	32 hole	1 ravine	1 sunken
3 below	1 diameter	13 hollow	1 reaching	1 surface
1 beneath	1 dig		13 river	1 swimming
1 black	8 distance	3 large	1 rocks	
3 blue	3 ditch	8 length		1 thick
1 bottom	1 delightful	2 level	1 safety	1 thickness
1 bottomless	27 down	4 light	1 scare	1 thin
1 bowl	1 dread	18 long	90 sea	2 thinking
1 breath		51 low	1 sewer	14 thought
2 broad	1 earth		1 shade	2 thoughts
1 brooding	1 extension	2 measure	1 shady	1 tranquil
1 brook		1 mighty	— 130 shallow	1 trench
	2 fall	1 mind	1 sharp	
2 cave	3 falling	4 mine	1 ship	1 under
1 Cayuga	3 far		1 short	
1 chair	5 fathomless	3 narrow	1 sincere	1 valley
2 chasm	1 fear		2 sink	2 vast
1 cellar	1 full	98 ocean	1 sleep	
1 classic		1 organ	1 smooth	1 wading
1 clear	1 gloomy		1 sorrow	134 water
1 cliff	1 good	1 philosophy	2 sound	44 well
	1 gorge	1 pit	6 space	1 wet
3 danger	1 great	1 pond	2 spacious	12 wide
5 dangerous	1 ground	1 pool	7 steep	2 width
28 dark				

7. SOFT

1 apple	1 dark	3 gentle	1 membrane	3 snap
	1 dough	1 girl	2 moist	7 snow
7 baby	6 down	1 glove	2 moss	6 soap
2 ball	8 downy	3 good	15 mud	1 soup
1 beautiful	1 dress	1 grasp	10 mush	22 sponge
12 bed	1 drink	1 grass	1 mushing	1 sponges
1 boiled		3 ground	12 mushy	8 spongy
1 brain	7 earth	1 gum	4 music	1 squash
4 bread	1 ease			1 sticky
1 breeze	34 easy	3 hair		1 strong
12 butter	4 eggs	3 hand	4 nice	1 substance
	2 eggs	1 hands		8 sweet
1 cake	1 elastic	— 365 hard	1 palatable	1 sweetness
1 candy	1 eyes	1 harsh	2 peach	
1 care		1 hazy	2 pear	8 tender
1 carpet	2 feather	1 head	53 pillow	1 texture
1 cat	24 feathers		2 pillows	1 timid
1 cement	1 feathery	1 idiot	8 pliable	1 tomatoes
1 clay	1 feel	1 jelly	2 plumb	4 touch
1 clean	8 feeling		4 pudding	
3 cloth	1 felt	2 kitten		1 uncooked
1 clothes	6 fine		1 quality	15 velvet
2 coal	1 firm		8 quiet	2 voice
1 cold	8 flabby	1 large		
2 color	1 fleece	8 light	3 rubber	1 wadding
2 comfort	1 flesh	1 lightly		1 warm
5 comfortable	7 flexible	2 liquid	1 sand	8 water
1 comply	1 floor	2 loose	1 satisfactory	1 watery
1 consistency	1 fluffy	5 loud	1 sent	1 wax
25 cotton	2 food	5 low	10 silk	3 wet
1 crabs	1 foolish		1 skin	8 white
2 cream	1 form	1 maple	2 slow	8 wool
1 creeping	3 fruit	1 marshes	1 slushy	1 woolen
25 cushion	1 fun	1 medium	27 smooth	
	4 fur	11 mellow		5 yielding

8. EATING

1 abstain	1 enjoyable	2 ice-cream	1 olives	2 slow
1 abstinence	1 enjoying	4 indigestion	1 oranges	1 slowly
2 action	2 enjoyment			2 soup
25 appetite	1 enough	1 knives	2 palatable	4 starving
4 apple	1 etiquette	1 lemons	3 people	2 steak
6 apples		2 life	3 pie	2 stomach
1 assimilation	3 fast	4 live	1 pleasant	1 strawberries
	6 fasting	6 living	1 pleasantness	2 strength
1 biting	1 fattening	1 lobster	10 pleasure	1 substance
46 bread	2 feasting	1 lobsters	1 plenty	2 sufficient
7 breakfast	1 feed	3 lunch	1 poor	1 sugar
1 butter	5 feeding		1 potato	1 surfeiting
	2 filling	1 masticate	2 potatoes	1 sustaining
4 cake	1 finishing	11 masticating	1 provisions	2 sustenance
3 candy	3 fish	5 mastication	1 pudding	6 swallow
1 Chacona's	1 flavor	1 matter		5 swallowing
1 chew	1 flesh	4 meal	1 quick	
27 chewing	— 170 food	10 meals	1 quickly	21 table
8 chicken	2 fork	11 meat		1 talking
1 coffee	1 forks	1 meeting	2 refreshing	7 taste
1 Commons	8 fruit	1 mild	1 refreshment	2 tasting
4 consuming	4 full	1 milk	1 Reichenweber	3 teeth
3 cooking		1 more	1 relief	1 thinking
2 cream	1 gluttonish	1 motion	2 relish	1 throat
	23 good	2 mouth	2 resting	1 tongue
1 devour	1 gourmandiser	1 movement	1 room	
2 devouring	1 gratifying	1 much		1 use
2 diet		1 myself	1 sandwich	1 utensils
1 diets	3 habit		12 satisfaction	
1 digest	9 health	4 necessary	1 satisfied	3 vegetable
7 digesting	1 healthful	7 necessity	1 satisfy	8 vegetables
10 digestion	1 heartily	3 nice	5 satisfying	4 victuals
2 dine	1 hearty	1 nourish	1 sick	
1 dining	2 hot	2 nourishing	1 sit	2 want
31 dinner	1 house	1 sleep	1 sitting	1 water
6 drink	19 hunger		1 sleep	1 watermelon
168 drinking	44 hungry		17 sleeping	2 well
1 dyspepsia				1 work

9. MOUNTAIN

1 abrasion	1 dirt	2 hilly	1 Mount Pleasant	1 shadows
4 Adirondacks	1 distance	1 Himalaya	1 Mount Shasta	1 shooting
2 air	1 ditch	5 hollow	1 Mount Wilson	1 size
3 Alleghany		1 Holyoke		2 sky
6 Alps	3 earth	1 home	2 object	1 slope
2 altitude	9 elevation	1 horse	1 Owl's Head	10 snow
1 attractive		1 Hudson		12 steep
1 automobile	1 fear	2 huge	16 peak	1 steepness
	1 field		1 peaks	2 stone
1 Bald	1 Flashman	1 impressive	1 pictures	1 stones
1 beautiful	1 foliage	1 incline	1 Pike's Peak	2 stream
2 beauty	1 fountain	1 island	1 pines	4 summit
2 big			11 plain	2 Switzerland
1 Blanc	1 Galetton	1 Kipling	1 plateaus	
1 Bluff	1 geography	1 knoll	3 pleasure	1 tall
1 Breckenridge	1 grand		1 pointed	1 Terrace
	3 grandeur	8 lake		5 top
1 camping	1 granite	6 land	1 railway	2 tree
8 Catskills	1 grass	1 landscape	3 range	17 trees
2 cliff	1 great	4 large	1 ranges	
1 cliffs	4 green	1 level	8 river	1 up
1 Clifton	1 ground	1 lofty	10 rock	
9 climb		2 low	6 Rockies	2 vale
27 climbing	1 heath	1 lowland	18 rocks	90 valley
1 close	73 height		5 rocky	5 valleys
3 clouds	2 heights	1 Monodonack	1 rough	1 Vermont
1 cone	246 high	1 mound		2 view
5 country	1 highlands	1 Mount Ivy	1 scene	2 volcano
1 crevice	2 highness	1 Mount Kear-	3 scenery	
	184 hill	sarge	1 sea	1 Washington
1 descend	32 hills	1 Mount McKi-	1 seas	5 White
2 descending	2 hilltop	ley	1 seashore	1 wood
1 desert	1 hilltops			3 woods

10. HOUSE

15 abode	1 corridor	1 habitable	2 mouse	1 star
1 alley	42 cottage	5 habitation		1 steps
3 apartment	3 cover	1 happiness	1 new	7 stone
	1 covering	2 height		1 stoop
1 background		3 high	1 object	2 store
74 barn	1 dark	3 hill	1 old	7 street
1 Bay Ridge	1 den	103 home	1 ours	8 structure
2 beautiful	2 dog	1 homeless		
1 Belknap	1 domestic	4 hospital	1 palace	1 tabernacle
4 big	1 domicile	1 hot	1 painting	1 table
1 blinds	16 door	5 hotel	1 Pasadena	1 tall
3 boards	1 doors	1 hovel	11 people	1 telescope
2 boat	3 dwell	2 hut	2 piazza	1 tenant
1 box	68 dwelling		1 picture	2 tenement
23 brick		1 inhabitant	6 place	3 tent
5 bricks	1 enclosure	1 inhabited	1 pleasant	1 timber
2 brown	1 erection	1 inmates	3 pretty	5 top
2 build		1 into	1 property	1 town
78 building	4 family		3 protection	2 tree
2 bungalow	1 fancy	1 joy		1 trees
	2 farm		4 red	1 tumbler
8 cabin	1 farmer	10 land	1 refuge	
1 camp	1 fence	1 lake	19 residence	2 villa
1 carpenter	1 field	24 large	2 resident	1 village
1 carpet	1 fire	3 lawn	1 restful	
4 castle	1 floor	1 lemon	1 road	1 walls
1 cattle	1 form	1 Leonia	12 roof	3 warm
1 cellar	1 foundation	2 life	9 room	1 wealth
2 chair	5 frame	33 live	8 rooms	1 well
1 chamber	1 friends	19 living		9 white
1 chicken	1 furnace	18 lot	1 Sage	1 Whittier
5 chimney	1 furnishing	1 lots	2 school	1 wide
1 church	11 furniture	3 lumber	1 sea	1 willow
2 city			1 shanty	9 window
2 clean	10 garden	2 man	5 shed	5 windows
1 closed	1 grandmother	14 mansion	22 shelter	31 wood
1 college	1 great	1 material	2 sky	1 wooden
0 comfort	2 green	1 mine	2 small	1 workman
1 comforts	3 ground	1 mortgage	1 spacious	1 worship
3 comfortable	1 grounds	1 Mountain	4 square	
1 contractor		House	3 stable	10 yard

11. BLACK

1 agreeable	36 darkness	2 hair	1 obscure	2 somber
8 blue	4 death	3 hat	1 orange	1 soot
3 board	1 dense	1 heavy		4 sorrow
2 book	1 desolate	1 hog	4 paint	1 space
2 bright	2 dirty	1 horror	1 paper	1 spectrum
1 buggy	1 disagreeable	5 horse	1 pen	1 stocking
	1 dislike		2 pink	1 stockings
	4 dog	1 impenetrable	1 pipe	1 suit
8 cat	1 domino	14 ink	1 pit	
1 chair	29 dress			1 table
1 charcoal	2 dye	1 lack	1 radiator	1 tar
17 cloth		12 light	4 red	1 terror
4 clothes	1 earth	1 marmy	1 ribbon	1 tie
1 cloud	1 ebony	2 man	1 robe	
1 clouds		1 Mrs. B.	1 sad	1 umbrella
2 cloudy	1 face	2 mournful	2 sadness	1 velvet
3 coal	2 fear	17 mourning	1 sack	
3 coat	1 figure	1 mud	1 shady	2 wall
129 color	1 flecked		2 sheep	1 water
1 colored	1 floor	7 negro	4 shoe	389 white
8 colorless	1 funeral	1 negroes	1 shoes	1 wonder
1 coon		6 nigger	1 sign	1 wood
2 crepe	2 gloomy	51 night	2 skirt	
1 curtain	1 gown	1 nothing	1 sky	2 yellow
	2 gray			
172 dark	7 green			

12. MUTTON

9 animal	1 delicious	1 goat	1 Mary	1 soft
1 animals	6 dinner	0 good	257 meat	2 soup
1 appetite	2 disagreeable	1 grass	1 mouse	1 stale
1 Australia	1 dish	2 grease	1 muttonhead	3 steak
	2 dislike	1 greasy		2 stew
1 baa	1 disliked		2 nice	2 strong
97 beef		2 ham		
1 bony	14 eat	1 hate	1 old	4 table
1 breakfast	7 eatable	2 head		6 tallow
15 broth	10 eating	1 horrid	1 pastures	3 tender
1 brown			1 peas	1 thinking
2 butcher	7 fat	1 indigestion	2 pig	6 tough
	2 field		3 pork	
2 calf	10 flesh	1 knife		1 uncle
1 cattle	1 flock		1 rare	
3 cheap	80 food	121 lamb	4 roast	80 veal
34 chop	1 fork	2 lambs		1 vegetables
83 chops	1 fowl	5 leg	1 sauce	1 vegetarian
2 cow			204 sheep	
			1 smell	4 wool

13. COMFORT

1 agony	1 driving	1 justice	1 please	11 solid
1 annoyance	165 ease	1 kindness	77 pleasure	8 solitude
1 bad	11 easiness		1 plentiness	2 soothing
42 bed	61 easy	1 lamp	1 plenty	5 sorrow
4 blanket	1 eating	2 laziness	1 Polly	1 speak
1 book	1 enjoying	1 lazy	1 post	1 spirit
1 books	6 enjoyment	6 leisure	6 quiet	1 spread
		1 less	1 quietness	1 suffering
1 canoe	1 feather	1 life	7 quilt	1 sweet
4 care	1 feeling	1 like		1 swing
31 chair	2 fireplace	2 living	1 rain	2 table
1 cheer	2 fireside	1 loneliness	1 relief	1 taken
1 children	1 friends	6 lounge	53 rest	1 tea
1 cloth		1 luxurious	1 restful	1 thankfulness
4 comfortable	1 God	23 luxury	1 restfulness	1 tired
1 comforter	5 good		5 resting	1 trials
2 consolation	1 goodness	1 man	1 rich	1 trouble
1 console	1 great	1 mansion	3 rocker	
1 consoling	1 grief	1 miserable		1 uncomfort
2 content		9 misery	1 safety	10 uncomfortable
4 contentment	7 hammock	9 money	1 salary	3 uneasiness
2 convenience	50 happiness	3 mother	4 satisfaction	3 uneasy
1 cozy	17 happy		3 satisfied	1 unrest
9 couch	2 hard	1 neatness	1 security	1 unwell
1 cover	7 hardship	4 nice	1 settled	
1 covering	1 healing	1 none	1 sick	6 warm
4 cushion	15 health	2 nurse	3 sickness	4 warmth
1 cushions	3 help		1 sit	6 wealth
	63 home	4 pain	4 sitting	8 well
1 davenport	4 house	2 palace	10 sleep	1 well-being
1 death	1 household	1 patient	1 slippers	1 wine
1 delightful		12 peace	1 slumber	1 wish
2 desirable	1 I	1 people	1 smoke	1 woman
24 discomfort	1 idleness	2 pillow	1 smoking	1 wool
1 disease	1 ill	1 pipe	5 sofa	1 work
1 displeasure		1 playing	2 soft	
4 distress	9 joy	9 pleasant	1 solace	1 ye

14. HAND

2 anatomy	11 feel	2 instrument	1 narrow	1 shapely
63 arm	5 feeling		2 necessity	1 shop
2 arms	85 feet	1 jewel	1 nice	1 shoulder
	2 fellowship	1 kindness	1 nimble	4 skin
1 ball	30 finger	1 knife	1 nose	1 slim
3 beautiful	83 fingers	1 knitting		8 small
3 black	1 flat		1 object	1 soap
1 bleeding	10 flesh	1 labor	4 organ	8 soft
48 body	204 foot	1 large		1 something
1 bone	1 form	4 leg	5 palm	1 sore
1 bones	1 formation	1 legs	1 part	6 strength
1 busy	1 friend	1 lemon	2 paw	3 strong
	1 friendship	2 life	1 pencil	1 support
2 cards	1 fruit	48 limb	1 perfect	1 system
1 clean		1 limbs	10 person	
1 clock	1 give	1 long	1 piano	1 table
1 convenience	20 glove	1 love	1 pen	1 thread
1 cradle	5 gloves		8 power	9 touch
1 cunning	1 good	2 machine	3 pretty	2 two
	8 grasp	1 maid	1 purity	
1 dexterity	1 greeting	3 man		12 use
1 diligence	8 grip	1 manipulation	1 reach	24 useful
1 dissecting		14 member	1 rest	4 usefulness
1 do	1 handle	1 mind	11 right	
2 doing	3 handy	1 mine	23 ring	1 watch
1 dog	1 hard	4 mouth	2 rings	1 woman
	1 head	1 move		49 work
1 ear	2 heart	4 muscle	1 satisfaction	15 white
1 elbow	6 help		1 servant	4 writ
6 extremity	2 helper	2 nail	2 sew	3 write
	1 helping	0 shake	2 sewing	11 writing
7 face	3 hold	1 name	1 shape	1 you
1 fat	1 holding			
	2 human			

15. SHORT

2 abbreviated	1 down	1 lake	1 petticoat	1 strong
1 age	1 drawn	2 large	1 pin	1 stubborn
2 arm	3 dress	2 leg	1 pity	9 stubby
	2 dumpty	18 length	1 plant	4 stumpy
1 baby	11 dwarf	1 lesson	1 plants	1 stunned
1 beach	1 dwarfs	1 lessons	1 pony	1 stunted
1 beam		5 life	2 post	1 sufficient
1 board	2 easy	15 little	2 pygmy	1 sum
3 boy	1 elongated	1 line		1 sweet
1 brevity	1 extension	1 lived	8 quick	
1 brick		279 long	1 quickly	168 tall
7 brief	4 fat	11 low		6 thick
1 broad	1 finger	1 lowly	1 road	1 thin
1 build	1 flowerpot		1 round	8 time
	2 foot	20 man		1 tiny
1 C.	2 friend	8 measure	1 session	1 Tom Thumb
1 cake		1 measurements	1 shallow	1 tree
1 chair	11 girl	2 medium	1 sister	
1 change	1 good	1 midget	5 size	1 unpleasant
4 child	1 grandmother	1 millimeter	1 skirt	1 useless
1 children	5 grass	1 minus	1 skirt	
1 clock	2 hair	1 Miss K.	1 slight	1 vacation
1 cloth	1 happiness	1 money	1 slightly	
1 comfort	13 height	1 mother	130 small	1 wasted
1 compact	4 high	6 myself	1 space	3 walk
1 cut	1 hour		2 speech	1 want
1 cylinder	3 hours	1 name	1 square	2 wanting
		1 narrow	1 staccato	1 water
1 dainty	5 inch	1 near	2 stature	1 well
4 day		1 needle	2 stem	1 wide
2 deficient	2 journey	1 not	8 stick	6 woman
1 dimension		1 out	2 stop	1 wood
1 diminutive	1 Karl		1 story	1 worm
2 diminutive		6 pencil	24 stout	
1 disagreeable	1 lacking	2 people	1 strawberries	1 you
10 distance	4 lady	15 person	2 street	
1 dot			1 string	

16. FRUIT

2 acid	1 easy	3 health	25 orange	1 salad
2 appetite	62 eat	2 healthy	20 oranges	5 seed
157 apple	33 eatable	1 home	6 orchard	1 sickness
102 apples	15 eatables		1 outcome	4 sour
1 article	35 eating	1 Italians		1 south
	1 edible	1 invigorating	2 palatable	1 spring
1 bake	1 eggs	1 jam	17 peach	1 stalk
11 banana	2 enjoyment	6 juice	23 peaches	1 stand
8 bananas		5 juicy	24 pear	1 stems
7 berries	1 fig		11 pears	1 store
1 berry	1 fish	1 knife	1 picking	2 strawberries
1 blackberries	1 flesh		1 pie	1 strawberry
2 bread	3 flower	2 lemon	2 pineapple	2 summer
	3 flowers	1 liked	1 plant	1 swallow
2 cake	1 fond	1 love	1 plants	24 sweet
1 can	22 food	8 luscious	2 pleasant	1 sweets
1 candies	1 fresh	2 luxury	1 pleasure	
3 candy			2 plenty	3 table
2 cherries	2 garden	4 meat	2 plum	5 taste
2 cherry	24 good	1 medicine	2 produce	35 tree
1 country	2 grain	1 melon	1 prune	27 trees
1 currants	4 grape	1 milk		
	14 grapes		1 raspberries	
1 dainty	1 grapefruit	1 nourishing	1 raspberry	75 vegetable
2 delicacy	1 green	2 nourishment	1 red	23 vegetables
9 delicious	1 groves	5 nice	1 result	
1 desire	1 grow	2 nutritious	9 ripe	1 watermelon
1 digest	1 grows	2 nuts	1 ripeness	1 wine
1 digestion	2 growth			

17. BUTTERFLY

1 air	6 cocoon	20 flying	1 lilies	1 soul
1 airiness	1 cocoons		1 little	1 sparrow
2 airy	4 collection	1 gaudy		1 speckled
24 animal	12 color	1 gauze	1 meadows	9 spider
2 animals	8 colors	2 gay	1 metamorphosis	2 spotted
2 ant	3 colored	2 girl	4 miller	5 spring
	2 country	2 gnat	1 monarch	17 summer
1 beast	1 cricket	3 golden	3 mosquito	1 sun
24 beautiful		1 good	1 motion	5 sunshine
20 beauty	1 daisy	2 grace	30 moth	1 swallow
31 bes	1 dish	1 graceful	1 moths	1 sweet
4 bees	1 dove	1 grass	1 mountains	1 swift
5 beetle	1 dress	5 grasshopper	1 mourning cloak	
64 bird	1 dust	2 grasshoppers		1 temporary
10 birds		5 grub	2 nature	1 tree
2 black	1 eagle		6 net	1 two
1 blossom	1 ease	1 handsome	1 nets	
1 blue	1 ephemeral	1 happy	2 nice	1 useless
2 bread		1 high		
1 bright	1 fairy	1 horse	1 orange	2 vanity
2 brilliant	2 field	1 human	1 outdoors	1 variegated
1 brown	1 fields			
1 bush	1 firefly	1 idler	1 pancake	11 wasp
3 butter	6 flies	261 insect	1 pig	2 white
6 buttercup	2 flight	2 insects	2 pigeon	1 wind
11 bug	1 flippant		1 plumage	11 wing
1 bugs	1 filtering	1 Japanese	1 powder	81 wings
1 bumblebee	1 fitting	30 pretty		1 word
	1 fits	1 kite	1 red	12 worm
1 cabbage	13 flower			2 worms
37 caterpillar	12 flowers	1 lady		
1 caterpillars	2 flutter	8 lepidoptera	2 small	37 yellow
1 chase	1 fluttering	5 light	1 snakes	
3 chrysalis	44 fly	2 lightness	1 snarc	

18. SMOOTH

2 apple	3 face	1 kind	5 pleasant	2 small
1 ball	1 fair		1 pleasing	1 snake
1 basin	1 feeling	1 lake	1 plum	79 soft
2 bed	8 fine	2 lawn	5 polished	1 softness
9 board	2 finished	1 lens	1 pressed	1 sphere
1 butter	14 flat	52 level		1 stone
	2 flexible	1 lightly	1 quality	2 straight
4 calm	15 floor	1 lovely	1 queer	1 street
1 carpet	1 folded			1 stroke
1 character	2 fur	1 machinery	1 razor	25 surface
1 cheek	56 glass	1 mahogany	2 river	
1 chip	4 glassy	10 marble	4 road	29 table
1 circus	1 glazed	1 mercury	1 roads	1 thin
2 clean	3 glide	1 mild	2 roof	1 thought
3 clear	1 gliding	1 mirror	277 rough	1 tidy
3 cloth	11 glossy	1 molasses	2 round	1 tomato
1 clothes	2 good		1 rubber	1 tongue
2 coarse	1 goods	1 narrow	1 rugged	4 touch
1 coat	1 grand	4 nice	1 rule	1 tranquil
1 country	3 grass	1 nicely	1 running	
1 course	1 grease	1 oyster		2 uneven
2 cream	4 ground		1 sailing	
1 cube		1 paint	1 sandpaper	20 velvet
	3 hair	9 paper	1 sea	1 velvety
1 deceitful	2 hand	2 paste	1 shape	1 very
1 deep	41 hard	1 pat	1 sharp	
1 desk	1 harmonious	1 path	1 shave	5 wall
1 done	4 harsh	1 pebble	4 shiny	1 walls
1 dry		1 person	4 silk	10 water
	14 ice	1 piano	1 silken	1 wave
2 ease	13 iron	1 placid	5 skin	1 window
12 easy	1 ironing	17 plain	2 sleek	3 wood
30 even	1 ivory	23 plane	3 slick	1 work
1 evenness		1 planed	4 slippery	1 worm
				1 wrinkled
				1 wrinkles

19. COMMAND

1 ability	1 dislike	1 harshly	12 obedience	1 something
1 act	27 do	1 haughty	2 obedient	3 speak
1 acting	3 doing	1 head	230 obey	1 spoken
1 anger	2 domineer	1 him	1 obeyed	1 stamina
1 answer	2 domineering	1 holy	30 officer	1 statement
1 anything	2 done	1 honorable	1 only	7 stern
1 appeal	2 don't	1 horse	171 order	3 strength
1 appearance	1 door		2 ordering	1 strict
16 army	2 drill	1 I	9 orders	3 strong
1 arrogance	1 driver	1 immediately		1 stubborn
2 ask	5 duty	3 imperative	1 parents	1 superintend
2 asking		4 imperious	1 peace	1 superior
1 athletics	1 earnestness	1 independent	2 people	1 supervisor
3 attention	1 easy	1 insist	2 peremptory	1 surly
14 authority	1 eat	1 instant	1 perfect	1 surrender
	1 effort	1 institution	1 person	
1 baseball	1 employ	2 instruct	1 plead	2 talk
1 Bible	1 employees	1 instruction	1 policeman	1 teach
1 bid	1 enforce	1 intelligence	10 power	14 teacher
6 boss	1 entreat		2 powerful	1 teachers
1 boy	7 entreaty	1 judge	1 praise	1 teaching
	1 exclamation		1 proper	15 tell
7 captain	1 exertion	1 knowing		1 telling
2 charge	1 experience		1 question	3 temper
2 chief		1 labor	1 quick	1 temperament
1 church	1 father	1 language		1 thee
1 combine	1 firm	2 law	2 refuse	1 them
1 combined	1 forbid	1 laziness	1 regiment	2 think
5 come	7 force	2 lead	1 reply	1 thinking
5 commander	1 forced	1 leader	2 reprimand	1 thoughtfulness
2 commandment	1 foreman	1 lieutenant	11 request	1 threat
2 company		2 listen	5 respect	2 told
1 compel	1 gain	2 loud	1 respond	
8 control	43 general	1 love	1 retreat	1 uncomfortable
1 cross	1 gentleness		3 right	1 upright
	1 gently	1 madam	2 rule	
1 dare	1 Germany	9 man	1 ruling	6 voice
18 demand	1 give	2 master	1 running	1 vow
1 demanding	25 go	1 masterful		
2 desire	1 God	3 military	1 say	1 wagon
2 determined	1 God's	2 mind	1 saying	1 wife
3 dictate	2 good	1 mother	2 school	3 will
1 dictatorial	1 govern	1 move	1 severe	1 willing
2 dignity	1 grand	1 must	1 shalt	2 words
2 direct			1 ship	2 work
1 disability	4 halt	1 noble	16 soldier	1 wrong
2 discipline	4 harsh	1 nuisance	6 soldiers	
				3 you

20. CHAIR

4 arm	1 cushions	1 idleness	1 people	56 sitting
4 article		1 implement	3 person	1 size
	9 desk		1 place	6 sofa
1 back	7 ease	1 joiner	1 placed	5 soft
1 beauty	6 easy		1 plant	1 spooning
1 bed		3 large	1 platform	1 stand
13 bench	1 fatigue	7 leg	1 pleasant	38 stool
1 book	10 floor	11 legs	1 pleasure	1 stoop
1 boy	1 feet	3 lounge	1 posture	1 study
2 broken	1 foot	3 low		1 support
4 brown	1 footstool	1 lunch	1 reading	
1 bureau	1 form		45 rest	191 table
3 cane	83 furniture	3 mahogany	3 resting	1 tables
1 caning		1 massive	17 rocker	1 talk
1 careful	1 Governor	1 mission	15 rocking	1 teacher
1 carpet	Winthrop	5 Morris	9 room	1 timber
1 cart		1 myself	2 rounds	1 tool
1 car	1 hair	2 necessity	1 rubber	
21 comfort	5 hard		3 rung	1 upholstered
8 comfortable	2 hickory	2 oak	127 seat	1 upholstery
3 convenience	4 high	1 object	5 seated	2 use
5 couch	2 home	1 occupy	2 seating	3 useful
1 crooked	3 house	1 office	3 settee	1 white
12 cushion			107 sit	49 wood
				6 wooden

21. SWEET

5 agreeable	1 dinner	1 hunger	33 nice	1 sharp
1 appetizing	1 dog	1 Huyler's		1 sickish
11 apple	1 dreams		1 orange	2 sixteen
3 apples		1 insipidity	2 oranges	6 soft
	1 E.			1 soothing
3 beautiful	2 eat	2 kiss	9 palatable	301 sour
50 bitter	1 elegant		3 peach	1 stuff
1 black	1 eyes	1 limited	1 peaches	224 sugar
1 breath		1 lovely	3 perfume	2 syrup
	1 face	1 loving	2 pie	
1 candies	2 flavor	2 low	1 plausible	57 taste
82 candy	2 flower		31 pleasant	4 tasteful
1 cherries	3 flowers	1 Mary	4 pleasing	2 tasting
1 child	1 food	1 mellow	1 pleasurable	11 tasty
3 chocolate	1 fresh	1 melody	1 pleasure	1 tea
1 chocolates	9 fruit	2 milk	1 plum	2 toothsome
2 clean		1 molasses	1 preserves	
1 confectionery	1 gentle	1 mouth	1 quality	1 ugly
1 cream	6 girl	8 music		1 unpleasant
1 cunning	26 good	1 musty		
			1 saccharine	1 very
7 delicious	2 harsh	1 name	3 salt	1 voice
1 dessert	12 honey	1 nausea	1 salty	
				1 wholesome

22. WHISTLE

1 act	1 crow	5 holler	1 person	1 sounds
1 action	2 cry	1 hollow	1 piercing	3 steam
7 air	1 cuckoo	4 horn	7 pipe	1 steamboat
3 alarm		1 humming	2 pleasure	1 stick
1 annoyance	8 dance		1 police	
2 attention	1 dear	6 instrument	6 policeman	4 talk
1 automobile	1 disagreeable		1 postman	1 telephone
	1 distant	2 joy	1 postman's	1 throat
1 bad	7 dog		1 pretty	7 tin
2 bell	1 drink	1 lad	4 pucker	1 tool
15 bird	1 dumb	3 laugh		1 top
3 birds		1 letter-carrier	1 quiet	4 toy
1 blast	1 ear	5 lips		6 train
5 blew	3 echo	5 locomotive	2 racket	1 tree
95 blow	1 effort	3 long	1 report	2 trumpet
6 blowing	15 engine	27 loud	1 running	18 tune
2 blows		1 low		
2 boat	2 factory		1 scream	1 umpire
56 boy	3 fife	1 man	1 screech	1 unpleasant
5 boys	1 fingers	1 mash	5 sharp	
1 breath	3 fire	1 melodious	4 shout	1 vibration
1 bright	5 flute	1 metal	1 shrieking	3 voice
1 brother	1 fly	2 mill	26 shrill	
1 buzzing	2 Franklin	1 mine	1 shrillness	1 warble
	2 fun	1 mocking	3 signal	1 warning
26 call	1 funny	27 mouth	1 sang	1 whisper
2 calling		44 music	75 sing	1 whispering
2 cars	1 Galton		4 singing	8 willow
1 cent	1 girl	3 nice	1 soft	10 wind
3 chain		1 nightingale	1 softly	1 wood
1 children	1 habit	178 noise	12 song	1 wooden
1 clean	8 happiness	3 noisy	1 songs	1 work
1 clear	1 harmony	1 note	1 sorority	
1 come	1 harsh	1 notes	103 sound	1 yell
1 conductor				

23. WOMAN

2 adult	1 delicate	2 grand	3 lovely	5 short
1 affinity	1 delightful	1 grandmother	1 loving	4 sister
1 aged	1 develop	2 great		3 skirt
2 angel	1 dignity		1 Mabel	3 skirts
1 appearance	1 dinner	9 hair	1 maid	2 slender
1 appreciating	1 domestic	4 handsome	1 majesty	1 small
1 artificial	28 dress	5 hat	292 man	1 softness
	4 dresses	1 hats	2 mankind	1 spiritual
1 baby	1 dressmaker	1 helper	2 marriage	2 stout
1 Barnard	1 dust	3 helpmate	2 married	2 style
17 beautiful		1 her	2 mate	1 suffrage
7 beauty	1 Edna	3 home	1 modesty	2 sweet
9 being	1 endurance	1 honor	30 mother	2 sweetness
1 Bible	2 Eve	2 house	1 Mrs. S.	1 sweetheart
1 biped	1 eyes	1 housekeeper	1 myself	
3 body		1 housewife		1 talk
1 bonnet	9 fair	11 human	1 nature	7 tall
3 boy	3 fashion	2 humanity	1 necessity	1 teacher
1 bright	184 female		3 nice	1 temporary
	10 feminine	1 inexplicable	1 noble	1 truth
1 capability	2 flesh	1 individual	1 nurse	
1 cat	1 figure	1 intellect		1 uneasy
1 character	2 fine	1 interesting	1 old	1 use
45 child	1 freedom			
2 children	3 friend	5 kind	1 palmist	2 virtue
2 clean		1 kindness	1 parasol	
1 clever	1 genteel		1 people	1 waist
6 clothes	5 gentle	2 labor	1 perfection	1 walks
1 clothing	1 gentleness	41 lady	17 person	1 weak
2 comfort	59 girl	4 large	1 petticoats	2 weakness
1 companion	3 girls	1 leader	3 pleasure	15 wife
4 creature	1 goddess	1 liar	10 pretty	1 will
1 cross	4 good	1 living	1 purity	1 womanhood
	1 goodness	1 lovable		2 work
1 dear	1 gown	5 love	1 rib	
1 deceit	3 grace	1 loveliness	5 sex	5 you
	2 graceful			4 young

24. COLD

1 activity	1 darkness	2 head	1 overcoat	1 sleighing
2 agreeable	5 day	1 hearted		1 slow
4 air	1 death	37 heat	1 pain	1 sneezing
1 arctic	1 degree	151 hot	1 Peary	45 snow
4 atmosphere	6 disagreeable		2 penetrating	1 snuffles
1 autumn	8 discomfort	114 ice	1 pleasant	1 stone
	3 dreary	1 ice-cream	1 pressure	1 storm
2 bad		1 irritating		3 stove
4 bitter	1 feel		1 quiet	
1 bracing	10 feeling	1 January		1 temperate
1 breezy	1 feet		1 raw	8 temperature
1 brisk	1 Finland	1 latitude	1 refrigerator	1 thermometer
1 bum	6 fire	1 lemonade	1 rhinitis	1 touch
	1 fold	2 light	1 room	
9 chill	7 freeze		1 running	10 uncomfortable
30 chilly	28 freezing	2 man	1 rough	4 unpleasant
2 clothes	2 frigid	1 medicine		
1 clothing	9 frost	1 misery	1 sensation	166 warm
1 coal	4 frozen	1 mushroom	5 severe	6 warmth
5 coat	1 fuel		3 sharp	7 water
2 comfort	2 furs	1 nature	6 shiver	49 weather
1 comfortable		1 naughty	2 shivering	1 well
1 comfortless	1 grippe	1 near	1 shivers	1 white
5 cool	1 gloomy	1 never	1 shivery	5 wind
5 cough		1 night	1 shrivel	1 windy
2 cure	1 ham	1 numb	1 shudder	120 winter
	1 hands	1 numbness	4 sick	1 wraps
2 damp	2 hard		6 sickness	
4 dark			1 skating	2 zero

25. SLOW

1 action	1 decrease	1 indecision	1 pace	1 subway
1 age	2 delay	1 insect	1 papa	27 sure
1 anger	1 deliberate	2 invalid	8 person	8 swift
2 animal	2 dilatory	1 irritating	2 Philadelphia	1 swing
1 ant	1 distance		1 poke	
1 anxiety	1 dizzy	1 laggard	2 poky	1 talk
1 association	1 donkey	1 lagging	1 Poughkeepsie	3 tardy
1 automobile	1 drag	1 lassitude	1 pupil	1 team
1 awful	1 dragging	2 late		1 tedious
	2 dreary	2 laziness	1 quality	1 terrapin
2 baby	1 dressing	28 lazy	56 quick	1 thought
3 backward	1 drive	1 lecture	2 quickly	1 thoughtful
1 backwards	1 driver	1 leisure	1 quickness	1 tide
1 bad	1 drone	1 lingering	12 quiet	14 time
1 bear	1 Dr. R.	6 long		5 tired
1 beggar	7 dull		1 rain	2 tiresome
1 behind		3 man	9 rapid	4 tortoise
1 better	2 ease	1 march	1 rhythmic	18 train
1 Bill	63 easy	1 market	1 river	1 trains
3 boat	1 Erie	3 me	1 Rose	1 trolley
1 boring		1 medium	2 run	9 turtle
2 boy	316 fast	1 mice		2 unpleasant
1 breakdown	1 feeble	1 mind	1 sharp	1 unsatisfactory
	1 fine	1 mode	1 short	
1 camel	1 fire	1 moderate	1 sick	
1 canal boat	1 fly	20 molasses	1 sickness	1 vehicle
6 car	1 foot	1 monotonous	1 slack	
2 cars	1 funeral	1 moon	2 sloth	7 wagon
1 careful		7 motion	1 slowly	8 walk
1 carpenter	3 gait	1 motionless	7 sluggish	7 walking
1 cart	1 gin	1 move	10 smart	1 walks
1 catch	1 going	8 movement	1 smooth	1 water
2 caterpillar		5 moving	62 snail	1 waves
1 caution	2 hard	1 Mr. T.	1 snails	2 weak
1 child	3 haste	3 mule	1 snake	1 weather
1 climb	2 hasty	3 music	1 softly	1 wheel
5 clock	1 heavy	3 myself	2 speech	1 white
3 coach	14 horse		7 speed	1 work
1 conversation	1 hot	1 nasty	1 speedless	1 working
1 cow	3 hurry	1 nature	1 starting	1 world
1 crawl			2 step	3 worm
1 creep	1 impatience	1 obstacle	3 still	1 writing
2 creeping	1 inactive	2 old	3 stop	
	1 inaction	2 ox	1 stubborn	
1 dead	1 incessant	1 oxen	7 stupid	1 you

26. WISH

1 accomplish	1 candy	1 dog	6 fulfilment	3 heaven
1 accomplishment	1 cannot	1 doll	1 fun	1 heavens
1 achieve	1 check	1 dollars		1 help
1 Aladdin	2 chicken	2 dream	2 gain	12 home
2 ambition	2 child	1 dress	14 get	51 hope
1 angel	3 Christmas	1 driving	4 gift	1 hoping
1 answer	1 clover		1 girl	2 hopeful
1 anxiety	1 clovers	1 eat	3 give	1 house
1 anxious	1 cold	1 entreaty	1 glad	
1 any	2 come	1 enjoyment	4 go	2 idea
7 anything	4 comfort	1 examination	1 gold	1 imagination
1 apology	9 command	1 expectation	19 good	1 impossible
1 ardent	1 conditions	5 express	7 grant	1 inclination
8 ask	2 cool	1 expression	15 granted	
1 asking	1 craving		4 gratification	2 journey
1 attain		11 fairy	6 gratified	1 joy
	2 demand	2 fancy	11 gratify	
1 baby	1 desirable	1 farm	1 greetings	1 know
2 beg	197 desire	5 favor	2 guess	
1 benefit	1 desires	1 feeling		2 letter
1 best	1 diamond	1 finish	18 happiness	8 like
1 better	1 disappoint	1 fish	3 happy	1 liked
19 bone	1 disappointed	1 fond	1 hard	1 lonesome
1 books	3 disappointment	1 foolishness	2 hat	10 long
1 boy	1 dish	5 for	1 hate	18 longing
1 boys	1 dislike	2 fortune	18 have	2 love
1 breakfast	1 did	1 fulfil	6 health	9 luck
1 brightness	5 do	2 fulfilled	1 hearty	

1 make	1 perhaps	1 repeat	9 star	1 unsatisfied
1 marry	1 person	8 request	2 stars	
2 million	1 pick	1 rest	1 strong	2 vacation
4 mind	1 picture	1 rich	4 success	
32 money	1 pie	3 riches	1 suggest	66 want
1 moon	1 plan	1 ring	2 summer	1 wants
1 morning	1 play		1 sweetheart	1 wanted
1 music	1 pleasant	1 sail	1 swim	9 wanting
1 myself	5 pleasure	1 satisfactory		1 waste
	2 plenty	2 satisfied	18 think	1 watch
1 news	3 position	1 satisfy	6 thinking	1 water
1 nice	1 possess	1 satisfying	47 thought	2 wealth
1 no	1 possession	2 say	1 toy	8 well
	2 present	1 secret	1 trip	3 will
8 obey	2 promise	1 sincere	1 trouble	2 wisdom
1 object		1 sleep	6 true	1 wise
1 obtain	1 quiet	1 some	1 try	14 wishbone
1 offer		15 something		2 wonder
1 one	1 reality	1 sorrow	1 unattainable	2 would
1 opportunity	1 receive	1 sorry	1 uncertain	1 wouldn't
1 opposition	1 remembrance	1 speak	1 unfulfilled	
1 orange	1 renown	1 special	1 unlawful	1 yes
1 order				1 you

27. RIVER

1 Amazon	1 Connecticut	65 lake	5 pond	7 smooth
1 Androscoggin	10 creek	1 lakes		1 spring
	8 current	5 land	1 rain	1 St. Lawrence
1 bank		7 large	1 Rappahannock	117 stream
2 banks	1 dangerous	1 launch	2 rapid	1 streams
1 barrow	35 deep	1 length	1 Rhine	1 streamlet
8 bathing	1 Delaware	1 life	1 rill	1 strong
1 bay	1 depth	1 liquid	2 rivulet	1 sunset
1 beautiful	1 drowned	8 long	1 rivulets	2 Susquehanna
1 beauty			1 row	8 swift
1 bend	4 East	1 meadow	1 rowing	4 swim
6 blue		8 Mississippi	3 run	4 swimming
20 boat	1 fish	1 Missisquoi	3 runs	
3 boats	24 flow	1 Missouli	6 running	1 Tay
1 boating	5 flows	1 Mohawk	1 rushing	1 tide
1 body	17 flowing	1 motion		1 tree
2 bridge	1 Freiberg	10 mountain	1 Saco	1 tug
5 broad	1 front	2 moving	4 sailing	1 turbulence
20 brook			1 salt	
1 bubbling	1 God	17 ocean	14 sea	5 valley
	1 Grand	2 Ohio	2 shallow	
1 Calumet	1 green	1 Ottanqueeshee	1 Shannon	1 Ware
1 camping		1 Owaseco	2 shining	308 water
1 canal	38 Hudson		4 ship	3 well
3 canoe		1 Pacific	1 ships	2 wet
1 canoeing	1 island	2 peace	1 side	3 white
1 Chignagnette		1 Piscataque	1 sky	5 wide
1 cliffs	1 Jordan	1 plain	2 slow	2 winding
1 commerce		1 pleasure	1 small	1 winds

28. WHITE

1 almost	1 cerement	35 dark	1 glare	1 lovely
2 apron	1 chair	1 darkness	1 good	
	3 chalk	1 day	2 gray	2 man
1 baby	1 cheerful	1 daylight	6 green	1 marble
1 beach	1 cherries	2 dazzling		9 milk
1 beautiful	10 clean	1 delicate	1 hall	1 Mountain
1 beauty	2 cleanliness	2 dove	2 handkerchief	1 Mountains
1 bird	1 cleanness	34 dress	1 hands	3 muslin
308 black	2 clear	1 dresses	1 hard	
1 bleached	17 cloth		2 horse	1 napkin
9 blue	1 clothing	2 easy	4 house	1 nearly
1 boat	4 cloud	1 evening		2 nice
1 Bob	2 clouds		1 innocence	
1 body	1 coat	1 face		5 paint
1 bride	170 color	2 feathers	1 lady	2 pale
4 bright	1 colored	2 flag	1 lawn	17 paper
1 brightness	11 colorless	2 flower	1 lead	1 pencil
1 Broadway	3 cotton		1 lemon	2 person
2 brown	1 cream	2 garment	1 lie	1 pigeon
	2 curtain	1 ghost	51 light	2 pink
2 cat	1 curtains		3 linen	1 pleasing

1 powder	1 rightness	1 silvery	1 space	1 tile
1 pretty	2 roe	1 simple	1 spread	1 trees
20 pure		1 skirt	2 still	1 trousers
19 purity	1 sand	2 sky	1 summer	
	1 Sarah	91 snow	1 sunlight	2 waist
1 race	1 shade	1 snowflake	1 swan	6 wall
7 red	6 sheet	1 snowy		1 wash
1 restful	1 shoes	1 soft	4 tablecloth	2 wedding
1 retired	1 shroud	1 soul	1 tent	
1 ribbon				7 yellow

29. BEAUTIFUL

1 admirable	1 divine	86 handsome	1 nicely	1 sculpture
1 admiring	2 dress	1 happy	1 night	1 sensitive
1 aesthetic		1 hard	1 noble	1 shapely
1 all	1 earth	1 hateful		1 sight
1 ancient	6 elegant	2 heaven	1 object	16 sky
2 appearance	1 enjoyed	1 heavens	3 ocean	1 soft
6 art	1 ethereal	1 hideous		1 sometimes
1 artistic	2 Eunice	2 hills	2 Palisades	1 soothing
1 article	1 Evelyn	27 homely	1 pansies	1 sorrowful
1 attractive	4 everything	1 horrible	1 park	8 splendid
	1 exquisite		3 peacock	1 statue
1 baby	1 eye	1 joy	1 perception	1 straw
1 bird	2 eyes		3 perfect	2 summer
1 birds		1 kind	1 perfection	1 sun
1 brilliant	3 face		2 person	8 sunset
1 building	6 fair	5 lady	19 picture	1 sunshine
2 butterfly	1 falls	1 lake	4 pictures	1 superb
	2 fancy	7 landscape	1 place	1 supreme
1 carpet	1 fascinating	1 lightness	2 plain	4 sweet
1 carving	8 fine	1 long	14 pleasant	1 symphony
7 charming	18 flower	1 look	16 pleasing	
6 child	42 flowers	1 looks	2 pleasure	2 things
1 city	1 foliage	1 looking	—113 pretty	4 tree
1 classic	1 forest	2 lovable		10 trees
1 clear	1 Formosa	64 lovely	1 queen	2 ugliness
1 clouds	1 fragrant	1 luxurious		66 ugly
1 color	2 friend		1 rainbow	
1 colors		10 magnificent	1 religion	1 vanity
3 comely	1 gift	2 maiden	1 resplendent	1 verdure
1 common	24 girl	2 man	1 ribbon	1 violets
3 complexion	2 glorious	1 mansion	1 rich	
1 conceited	2 God	1 money	1 robin	4 weather
3 country	4 good	1 morning	6 rose	1 wife
1 curtain	2 gorgeous	2 mountain	2 roses	29 woman
	1 graceful	6 mountains		1 women
1 dainty	40 grand	4 music	1 sad	1 wonderful
7 day	2 grandeur	1 myself	1 satisfaction	2 world
1 delicious	1 grass		1 scarce	
5 delightful	1 grounds	16 nature	1 scene	1 you
1 description		1 Niagara Falls	23 scenery	
1 desire	1 hand	73 nice	1 school	

30. WINDOW

12 air	1 danger	2 lattice	20 sash	2 sunshine
1 airing	2 dirty	1 ledge	2 scene	
1 airy	57 door	186 light	3 scenery	1 thing
2 aperture	1 doors	15 look	2 school	1 translucent
1 awning	1 doorway	5 looking	1 screen	1 transom
	1 draught	1 low	1 screens	24 transparent
1 bars			1 seat	2 trees
4 blind	1 eyes	1 Newcastle	9 see	
1 breeze			8 shade	2 useful
3 bright	1 few	1 object	2 shades	
2 broken	5 frame	19 open	1 shed	1 vast
		1 opened	1 shining	5 ventilation
1 cage	1 garden	16 opening	7 sight	2 ventilator
3 casing	— 316 glass	1 outdoors	1 sightly	15 view
1 children	1 glasses	5 outlook	13 sill	1 viewing
1 church			1 sky	1 visible
6 clean	4 hole	82 pane	8 skylight	1 vision
1 cleaner	1 home	6 panes	1 small	
7 clear	22 house	1 picture	1 square	4 wall
1 colored		1 porch	2 stained	1 wash
1 cool	1 joyful		1 stop	2 wide
13 curtain		1 rain	1 street	2 winter
4 curtains	2 landscape	1 rock	1 structure	1 wood
	11 large	3 room	3 sun	

1 old	4 politician	1 righteousness	1 suburban	1 unit
1 orderly	1 politicians	2 Roman	3 suffrage	19 United States
1 outlaw	8 politics	2 Roosevelt	2 suffragette	2 useful
	1 poor	1 ruler		
2 paper	4 president		3 Taft	2 village
2 papers	1 proud	1 season	1 Tammany	13 vote
1 patrician		1 ship	1 taxes	4 voting
2 patriot	1 relative	5 soldier	1 Teddy	35 voter
2 patriotic	3 republic	10 state	1 thoughtful	
1 peasant	1 republican	5 statesman	1 tough	1 Washington
41 people	2 residence	1 stationed	5 town	2 woman
64 person	20 resident	1 straight	5 townsman	2 work
1 plebeian	1 respectable	5 subject		
2 policeman	1 revolution		2 undesirable	1 years

33. FOOT

2 anatomy	1 finger	1 labor	1 pedant	1 standard
2 animal	1 firm	1 lame	1 pedestal	6 step
11 ankle	1 flat	14 large	1 pedestrian	1 stepping
2 appendage	6 flesh	54 leg	5 person	2 stocking
11 arm	1 football	1 legs	1 plaster	1 stone
	3 foundation	2 length		1 strength
1 baby's		58 limb	2 quadruped	1 strong
1 base	1 gear	2 long		1 stumps
1 bicycle	1 girls		1 rheumatism	1 support
2 big	1 going	5 man	1 right	1 swiftness
3 black	1 good	3 measure	1 rubber	
34 body	2 ground	10 member	4 rule	1 three
4 bone		1 mine	1 ruler	5 tired
5 bones	185 hand	1 Miss F.	2 run	30 toe
6 boot	5 hands	2 movement		41 toes
1 bottom	7 head	1 music	1 shape	2 travel
1 broken	3 heel		146 shoe	1 trod
1 brown	1 help	1 nail	17 shoes	1 twelve
	1 helper	1 naked	4 short	1 two
1 careful	1 horse	2 necessity	1 size	
3 comfort	1 house	1 needful	1 skin	5 useful
3 corn	1 human		2 slipper	
2 corns	1 humility	1 organ	22 small	1 velocity
	1 hurt		1 sole	
1 dainty		1 pain	3 sore	106 walk
1 difficult	3 inch	1 painful	1 speed	88 walking
1 distance	2 inches	2 part	1 stability	1 warm
		1 pavement	6 stand	
1 expansive	4 kick	3 pedal	1 standing	1 yard
9 extremity	2 knee			

34. SPIDER

1 abhorrence	1 crawls	4 flies	3 nasty	1 stung
1 afraid	11 crawling	136 fly	1 nest	1 study
38 animal	1 crawly	1 fright	2 net	
1 annoyance	2 creature	1 fry	1 nuisance	3 tarantula
3 ant	6 creep	1 frying		1 thing
2 arachnida	1 creeps		1 objectionable	2 thread
1 arachnoid	7 creeping	1 grass	1 obnoxious	1 tortoise
1 awful	1 creepiness		1 octopus	1 treachery
	5 creepy	1 harlequin		1 tree
3 bee	2 cricket	1 harmful	1 pain	
2 bees	1 cringe	1 horrible	1 pan	6 ugly
4 beetle	1 cross	4 horrid	1 pest	1 undesirable
1 big	1 crow	3 horror	10 poison	1 unpleasant
2 bird	1 cunning		1 poisonous	
20 bite		1 industry	1 pretty	2 venomous
8 black	1 daddy-long-	276 insect		1 vermin
1 breakfast	legs		1 rats	
58 bug	1 danger	1 jumping	2 Robert Bruce	1 walk
2 bugs	4 dangerous		1 roach	1 wall
5 butterfly	2 dark	5 large	1 room	6 wasp
	1 dirty	3 leg		1 watching
1 camp	3 disagreeable	27 legs	1 shivers	2 weaves
3 caterpillar	1 displeasure	1 loathsome	1 shudder	1 weaving
1 centipede	1 dread	1 long	1 sinister	188 web
1 chills			2 small	3 webs
1 climb	1 evil	1 Miss Muffet	1 snake	1 wiggly
12 cobweb		1 mosquito	1 snakes	4 worm
2 cobwebs	3 fear	1 moth	1 sparrow	
1 country	1 fish	1 movements	7 sting	1 young
14 crawl			1 stings	

35. NEEDLE

3 article	2 dressmaker	4 knitting	1 pincushion	1 stitching
1 blood	1 embroidery	1 labor	40 point	1 surgeon
2 book	17 eye	1 long	9 pointed	
1 broken			10 prick	1 tailor
1 button	3 fine	1 magnetic	1 pricks	2 thick
1 buttons		1 material	2 pricking	15 thimble
	1 handy	1 mending	134 sew	2 thin
1 camel	1 help	3 metal	1 sews	—100 thread
4 cloth	1 hole		107 sewing	5 tool
2 clothes	1 home	1 nail	152 sharp	1 use
2 coat	1 housewife	1 ornament	4 sharpness	1 using
7 cotton	2 hurt		1 shiny	12 useful
1 crocheting	2 hypodermic	1 patching	1 slippers	
1 cut		147 pin	2 small	1 weapon
4 darning	5 implement	11 pins	53 steel	1 wire
1 diligence	26 instrument		2 sting	1 woman
				6 work

36. RED

1 aggravating	1 cheeks	1 fright	1 jacket	2 rug
1 anarchist	1 cheer	2 flower		
2 anger	1 cherries	1 flowers	1 lavender	3 scarlet
13 apple	1 closet	1 flushing	1 light	1 shoe
3 apples	8 cloth		1 lips	2 sky
	1 clouds	1 garment		1 smooth
1 ball	2 coat	3 garnet	1 maroon	1 soldier
1 banner	— 254 color	1 gaudy	1 Maru	1 spots
2 barn	1 colors	2 glaring	1 mixture	1 story
2 beauty	1 colored	1 glass	1 moon	5 sun
1 becoming	1 coloring	1 globe		3 sunset
61 black	1 comfortable	1 glow	1 object	1 sweater
71 blood	1 Cornell	1 grass	1 objectionable	
1 bloody	1 cow	30 green	1 offensive	1 tablecloth
1 blossom	2 crimson		1 orange	4 thread
99 blue	2 curtain	6 hair		1 tie
8 book		1 handsome	5 paint	1 tomatoes
1 bravery	14 danger	1 hat	4 paper	2 turkey
3 brick	6 dark	2 head	1 pawson	
2 bricks	1 dashy	1 healthy	1 pencil	1 vivid
40 bright	1 dislike	4 heat	1 pink	
2 brightness	18 dress	1 Hereford	1 plush	1 war
3 brilliant		1 holly	1 polmaettia	6 warm
1 brook	1 eat	1 hood	2 pretty	3 warmth
7 brown	1 Ed	1 horse	6 purple	1 whiskey
1 building		5 hot		97 white
2 bull	2 fiery	2 house	2 ribbon	1 wool
	31 fire		1 riding	1 world
1 cap	16 flag	2 Indian	2 robin	
1 cape	3 flannel	4 ink	15 rose	1 yarn
1 carpet	1 flashy	1 iron	2 rosy	15 yellow
1 ceiling				

37. SLEEP

94 awake	2 dead	4 eat	1 habit	1 midnight
1 awaking	7 death	1 enjoyable	1 happiness	1 myself
3 awaken	5 deep	1 enjoyment	3 health	
1 awakening	1 desire	1 enough	1 heavy	1 natural
	1 desperate	1 experiment	1 home	4 necessary
2 baby	1 dope	10 eyes		1 need
1 beautiful	2 dormitory		2 insomnia	1 needful
75 bed	1 dose	1 fast		1 nice
1 bedstead	4 doze	2 fatigue	1 lady	40 night
	28 dream	1 fine	1 leisure	
2 calm	10 dreams	2 forgetfulness	1 lain	1 peace
1 chance	6 drowy		3 lie	1 peaceful
2 child	3 drowsiness	1 gentle	1 lying	2 peacefulness
1 children	1 dullness	1 girl	1 luxurious	1 perfect
1 coma		1 go	1 luxury	5 pillow
30 comfort	8 ease	5 good	1 meamerism	8 pleasant
	4 easy			1 plenty

1 poorly	2 refreshment	1 senses	1 song	60 wake
1 potassium bro-	1 relax	1 Shakespeare	2 soothing	4 wakefulness
mide	31 repose	1 sheet	16 sound	1 wakened
2 profound	-300 rest	1 shut	3 soundly	1 wakening
	14 resting	1 silence	2 still	4 waking
8 quiet	9 restful	1 sleeplessness	3 sweet	2 walk
2 quietness	4 restless	1 sleepy		1 wanting
1 quietude	1 restore	20 slumber	1 thinking	1 watchful
	2 restorer	2 slumbering	26 tired	3 weariness
1 rage	1 retiring	4 snore	1 tiresome	1 weary
2 recline	1 rise	1 soft		1 well
1 reclining	1 rising	1 solace	12 unconscious	1 woman
7 refreshing			7 unconsciousness	

38. ANGER

1 abuse	5 disturbed	1 horror	1 nonsense	1 slow
1 aggravated	4 dog	3 hot	1 not	2 smooth
2 aggravation	1 downhearted	1 hot-headed	1 noticeable	1 sober
1 agony	1 duel	1 house		1 soft
2 amiability		1 humor	1 obey	1 soldier
1 amiable	3 emotion	1 hunger	1 out	1 sometimes
6 angry	2 enemy	1 hysteria	1 outrage	1 soothing
2 anguish	1 energy			10 sorrow
1 annoyance	1 enmity	1 ill	1 pain	1 spite
3 annoyed	1 excitability	4 impatience	51 passion	1 spiteful
1 appearance	3 excited	3 impatient	1 passionate	1 storm
1 aroused	4 excitement	1 Indian	3 patience	1 strike
1 awful	1 exclamation	1 indignant	6 peace	1 strong
		2 indignation	1 peaceful	1 suffering
13 bad	1 face	1 insanity	1 peevish	1 sulky
2 bitter	1 father	1 insult	2 person	1 swear
3 bitterness	9 fear	1 insulted	1 placid	1 sweetness
1 blow	4 feeling	1 intense	5 pleasant	1 sword
1 blows	1 ferocity	1 intensity	4 pleasure	
1 blush	1 fierce	1 intoxication	2 provocation	1 talking
3 boy	1 fiery	2 ire	1 provoke	2 teacher
1 breathing	8 fight	1 irritable	1 provoked	1 tears
	1 fighting		2 provoking	-149 temper
7 calm	1 fist	1 jealousy		1 temperament
1 calmness	1 flush	1 Jimmy	3 quarrel	1 terrible
2 cat	1 foolish	4 joy	2 quarreling	1 terror
1 catching	3 foolishness	1 joyful	1 quarrelsome	3 thought
2 cause	1 force	1 judgment	4 quick	1 torment
1 character	1 forgive		1 quickness	6 trouble
1 cheer	3 forgiveness	2 kind	6 quiet	1 turbulent
1 child	1 frenzy	2 kindness	1 quietness	1 turmoil
1 children	1 fret		1 quite	
1 choler	1 fright	1 laughter		1 ugliness
1 cold	1 frown	1 light	16 rage	4 ugly
3 command	1 frowning	2 lion	1 rarely	1 unbecoming
1 compose	1 fun	1 little	1 rashly	1 uncomfortable
5 control	2 furious	3 loud	1 rashness	1 unhealthy
1 cool	4 fury	5 love	1 raving	4 unpleasant
1 cranky		1 low	1 reason	
1 crazy	2 gentle		3 red	1 very
44 cross	3 gentleness	121 mad	1 remorse	3 vexation
2 crossness	1 giant	1 maddest	2 resentment	13 vexed
1 covetous	1 girl	19 madness	1 resistive	1 vicious
1 cruel	4 glad	2 malice	1 rest	1 violence
1 cry	2 gladness	6 man	1 restless	2 violent
	2 good	1 mean	8 revenge	1 voice
1 danger	1 great	4 meekness	2 riled	
1 deliberation	3 grief	1 mild	3 rough	1 war
1 despise	1 grieve	4 mind	1 roughness	5 wicked
1 devil	2 grouchy	2 mirth	1 rude	1 wickedness
4 disagreeable		2 myself		1 wish
1 disappointed	4 happiness		1 sad	
2 disappointment	2 happy	1 name	2 scold	4 woman
3 discomfort	3 harsh	1 nature	2 scolding	1 words
1 dishonor	2 haste	1 nerves	1 scowl	52 wrath
1 dislike	3 hasty	1 nervous	1 sedative	1 wrathful
1 disobedience	9 hate	1 never	1 selfishness	2 wroth
1 disobedient	1 hateful	1 nice	1 sharp	4 wrong
2 displeased	26 hatred	2 noise	1 shorn	
2 displeasure	1 headache	1 noisy	1 sick	1 yelling
3 disturbance	1 horrid	1 none	1 sin	

39. CARPET

1 appearance	1 curtains	8 green	1 pattern	10 sweeper
1 article	1 dark	1 hall	1 pennant	1 table
1 beat	6 design	3 heavy	1 pleasant	8 tack
2 beating	1 designer	4 home	2 plush	3 tacks
1 beater	2 dirt	4 house	4 pretty	2 tapestry
2 beautiful	1 down	2 ingrain	2 protection	2 textile
1 beautifying	1 drag	1 lay	1 quick	2 thread
2 beauty	1 dullness	1 loom	7 rag	2 tread
1 bedroom	4 dust	1 lot	3 rags	2 use
2 blue	1 duster	3 luxury	1 ragged	1 useful
2 bright	3 ease	6 mat	8 red	9 velvet
1 broom	1 electric	3 material	1 reddish	15 walk
2 brown	1 expense	10 matting	1 refinement	6 walking
1 brush	2 fancy	1 mattress	1 rich	1 wall
1 brushes	3 figure	1 microbes	17 room	1 Wanamaker
14 Brussels	1 flat	1 moss	2 rough	2 warn
1 chair	256 floor	1 nail	14 rugs	5 warmth
1 chairs	2 flooring	1 neatness	1 shoes	1 weaver
3 clean	2 foot	1 nice	1 small	1 weaving
2 cleaning	1 fur	1 none	8 smooth	1 wear
1 cleaner	1 furnishing	7 oilcloth	78 soft	1 white
20 cloth	4 furniture	1 oriental	4 softness	1 wide
6 color	1 germs	2 ornament	2 stairs	1 wood
1 colors	2 good	3 parlor	1 stove	10 wool
15 comfort	4 goods	1 straw	7 sweep	7 woolen
3 comfortable	1 grain	3 sweeping	1 worsted	2 woven
2 cotton	1 gray			
27 cover				
76 covering				

40. GIRL

1 ankles	2 cute	3 hair	7 maid	6 sister
1 Annie	2 dainty	1 hand	13 maiden	2 sixteen
1 associate	1 damsel	5 handsome	1 maidenhood	1 skirts
1 baby	1 dance	1 happiness	1 male	1 slender
1 Beatrice	1 dancing	1 harmlessness	7 man	1 slight
8 beautiful	2 daughter	1 has	1 men	1 slim
6 beauty	1 delight	3 hat	1 meek	8 small
9 being	1 diabolo	1 head	1 mischievous	1 smart
1 belt	1 domestic	1 here	4 miss	1 smartness
1 big	1 Doris	1 hood	1 Miss S.	1 student
1 biped	1 Dorothy	1 hoop	1 modesty	1 studious
1 blonde	1 dream	7 human	2 mother	3 study
1 blooming	8 dress	1 humanity	3 myself	1 stylish
1 book	4 dresses	1 immature	2 neat	1 summer
350 box	1 Effie	2 infant	2 necessity	4 sweet
8 boys	1 Ethel	3 innocence	11 nice	1 sweetness
2 brides	1 eyes	1 innocent	2 niece	2 sweetheart
1 bright	1 fair	1 intelligent	1 noise	1 talks
1 changeable	2 fellow	1 Irene	1 Pelar	4 tall
1 cheerful	77 female	1 jealousy	18 person	1 thoughtless
49 child	3 feminine	2 jolly	1 petticoats	1 ugly
2 children	8 flesh	2 joy	2 play	1 useful
2 childhood	1 flirtation	1 kid	4 pleasure	1 vanity
1 childish	1 Frances	20 pretty	1 pupil	2 virgin
1 choice	7 friend	1 large	1 quick	1 walk
1 class	1 futurity	1 lassie	1 rarely	1 water
1 classmate	1 garden	1 learning	1 running	2 weak
1 clever	1 gay	8 little	1 saucy	1 white
4 clothes	1 gentility	1 lively	19 school	1 wife
1 clothing	1 gentle	1 Lizzie	3 servant	61 woman
1 Coleen	1 Gertrude	3 love	4 sex	31 young
1 college	6 good	1 loving	1 shirk	1 youngster
2 companion	1 grace	4 lovely	4 silly	24 youth
1 cook				
1 cunning				
2 curls				

41. HIGH

9 above	2 dizzy	24 house	16 mountains	1 staff
5 air		1 houses	1 myself	1 stand
1 Alps	11 elevated			13 steep
14 altitude	2 elevation	1 ideal	1 notion	12 steeple
1 ascend	1 erect	1 ideas		1 stick
	2 exalted	1 immense	4 peak	1 stone
1 bank	1 extended		1 pine	1 summit
1 beam		2 jump	1 pinnacle	2 swing
1 beanstalk	3 fall		1 play	
3 big	2 falling	1 kite	8 pole	57 tall
1 bridge	1 far	2 ladder	1 power	1 temperature
24 building	1 fast	5 large	3 precipice	1 temple
2 buildings	2 fear	7 length		5 top
	1 feet	1 lighthouse	2 reach	12 tower
1 Cathedral	3 fence	20 lofty	1 rich	19 tree
4 ceiling	1 first	7 long	1 rocky	4 trees
2 chair		-- 328 low	3 roof	
2 church	2 giant		1 room	26 up
1 cliff	1 great	1 magnificent		1 upward
1 climb		1 man	1 see	
1 climbing	1 hat	2 mast	1 shallow	1 valley
7 clouds	1 heaven	1 measure	3 short	1 vision
	3 heavens	3 medium	1 skies	
5 deep	1 heavenward	1 Metropolitan	17 sky	5 wall
4 depth	14 height	1 mind	2 skyscraper	1 waves
1 dimension	20 hill	2 monument	1 small	2 wind
11 distance	4 hills	1 mount	1 soft	1 woman
3 distant	1 hot	157 mountain	1 spire	

42. WORKING

1 accomplish	2 earning	2 horse	1 making	1 prosperous
1 accomplishment	2 ease	1 hour	50 man	
3 active	1 easiness	1 house	6 men	1 quick
1 activity	4 easy		1 model	
1 always	2 eating	44 idle	4 money	1 railroad
1 ambition	1 effort	10 idleness	1 morning	1 reading
5 ambitious	10 employed	2 idling	3 motion	1 recreation
1 anxious	1 employers	1 inconvenience	2 movement	17 rest
1 apron	4 employment	1 indolent	5 moving	24 resting
1 attendant	2 energetic	13 industrious	1 mowing	1 result
	3 energy	8 industry	2 myself	1 rowing
1 bent	2 engaged	1 intelligent		3 running
1 book	1 English	1 interest	4 necessary	
2 boy	1 essay	2 Italian	1 necessity	1 salary
2 broom	15 exercise	1 job	1 neighbor	1 satisfaction
6 business	1 exercising		1 never	1 saving
51 busy	3 exertion	1 keeping	1 night	6 school
			1 noble	3 scrubbing
1 carpenter	3 factory	-- 147 labor	1 nothing	2 servant
3 class	2 fair	20 laboring	1 nursing	1 setting
1 comfort	1 faithfully	1 labors		7 sewing
1 complication	1 farm	5 laborer	1 obstetrics	2 shirking
2 content	1 fast	1 lack	13 occupation	7 shop
2 continually	3 father	1 ladies	1 occupied	1 shorthand
1 continuous	7 fatigue	1 late	1 occupy	1 sickness
1 cooking	2 fatigued	2 laziness	2 order	1 singing
	1 field	18 lazy		3 sitting
6 day	1 flowers	1 leisure	1 paid	4 slave
1 difficult	1 foundry	1 Lillie	1 patients	1 slavery
1 digging	1 function	1 little	5 people	1 slaving
1 diligence		1 live	2 person	2 sleep
1 discomfort	2 girl	2 livelihood	1 perspiration	8 sleeping
2 do	4 good	5 living	8 play	1 slow
10 doing		1 loaf	22 playing	1 smart
1 done	2 hammer	5 loafing	1 pleasant	1 starving
1 drawing	3 hands	1 loafer	4 pleasure	2 steady
1 driving	1 happiness	1 lounging	1 plow	1 stenographer
1 drudge	105 hard		1 plowing	2 strenuous
1 dusting	2 health	2 machine	1 policy	1 struggle
1 duties	1 healthy	1 machinery	1 position	5 study
2 duty	1 hoeing	1 machinist	1 possession	5 studying

1 sweep	1 thought	9 toiling	2 unemployed	1 weariness
3 sweeping	1 time	2 tools	2 useful	2 willing
1 swift	28 tired	1 treadmill		2 woman
	3 tiresome	1 trouble	4 wages	1 work
1 table	1 tiring	2 trying	2 walking	1 workman
2 task	1 to-day	1 typewriter	1 washerwoman	1 world
1 thinking	7 toll		5 washing	2 writing

43. SOUR

1 acetic	1 delight	1 juice	15 pickle	1 stomach
23 acid	18 disagreeable		26 pickles	2 sugar
1 acrid	1 dislike	2 kraut	1 pleasant	--- 349 sweet
1 anger	3 disposition		1 plum	
1 angry	4 distasteful	78 lemon	1 plums	17 tart
27 apple	1 drink	17 lemons	3 pucker	55 taste
10 apples		1 lime		2 tasting
1 astringent	1 face		3 quince	2 tasteless
	1 flavor	1 man		1 teeth
6 bad	3 fruit	81 milk	1 rancid	1 turned
1 beer			1 repulsive	1 twinge
70 bitter	1 gall	3 nasty	5 rhubarb	
1 bitterness	4 good	1 naturally	1 rough	4 ugly
	1 goodness	3 nice		1 unhappy
3 cherries	3 grape	1 no	2 salt	3 unpalatable
2 cider	36 grapes	1 nourishing	1 salty	16 unpleasant
1 cross	2 grapefruit		2 sauerkraut	1 unpleasantness
1 crowd	1 green	1 odor	1 sear	1 unsweetened
1 currants		2 orange	2 sharp	
	1 hate		1 soft	91 vinegar
1 dangerous	1 hurts	1 painful	1 song	
1 death		1 peralimmon	1 spoiled	1 wholesome
				1 wine

44. EARTH

1 agriculture	115 dirt	1 growth	2 mould	5 sand
3 air	4 dirty		1 mouldy	31 sky
1 ashes	1 dogs	2 habitation	4 mountain	1 smelly
	4 dry	4 hard	2 mountains	3 smooth
4 ball	9 dust	31 heaven	16 mud	2 sod
3 beautiful		1 heavens		5 soft
2 big	3 farm	2 heavy	4 nature	37 soil
7 black	1 farming	1 hell		1 solid
1 body	1 fence	1 hemisphere	1 object	2 solidity
2 broken	1 fertile	3 home	1 ocean	1 space
17 brown	1 fertilized	1 house	1 one	4 sphere
1 building	4 field	1 huge	1 orange	1 star
	1 fields			2 stone
1 cemetery	1 flag	1 inhabitable	1 paradise	2 stones
71 clay	3 flour		1 place	1 street
1 climate	1 flower	28 land	17 planet	1 substance
1 cloud	8 flowers	7 large	2 plant	4 sun
1 coffin	1 foot	1 level	5 plants	3 surface
2 cold	1 foundation	3 live	1 planting	
1 color	1 fresh	2 living	1 pleasure	1 travel
2 Columbus	1 fruitful	3 loam	1 potential	4 tree
1 continent	1 Fuller's	1 lot	1 productive	5 trees
2 corn		2 low	1 put	
2 country	3 garden			1 unfertile
1 cover	1 geranium	1 man	1 rain	8 universe
1 creation	16 globe	2 map	1 rampart	
1 crunching	2 grain	3 Mars	1 rest	1 vastness
1 crushed	1 grand	1 mass	1 revolution	1 vegetable
5 crust	11 grass	1 material	4 rich	
	3 grave	1 matter	1 river	3 walk
5 damp	2 gravel	1 metal	1 road	10 water
10 dark	1 gravity	1 mine	2 rock	1 wide
1 delve	2 great	1 mineral	2 rocks	1 wood
2 depth	3 green	3 moist	61 round	46 world
1 dig	1 greenhouse	11 moon	1 roundness	5 worm
2 digging	--- 166 ground	5 mother		2 worms

45. TROUBLE

2 accident	1 disagreeable	3 health	20 pain	1 table
4 affliction	2 disagreement	1 heart	2 patience	1 task
3 aggravation	1 disappoint	1 heaviness	2 patient	9 tears
6 anger	3 disaster	1 hemorrhage	1 patients	1 teasing
6 angry	7 discomfort	2 home	15 peace	1 temper
1 anguish	2 discontent	1 horror	3 peaceful	1 temptation
1 annoy	3 disease	1 horse	3 people	2 thought
2 annoyed	2 dislike	1 hurried	1 perplexed	1 thoughts
5 annoyance	1 disobedience	1 husband	1 perplexity	1 torment
15 anxiety	1 displeased		3 person	1 travel
2 avoid	1 displeasing	1 idea	1 pity	1 trial
	2 displeasure	2 illness	10 pleasure	3 trials
11 bad	1 dissatisfactory	1 imaginary	1 plenty	5 troublesome
1 begins	7 distress	2 inconvenience	2 poor	
1 black	2 disturbed		2 poverty	1 ugly
1 borrowed	1 doctor	9 joy	1 psychologist	1 unavoidable
1 borrows	1 dogs			1 uncertainty
4 bother		1 kindness	3 quarrel	2 uncomfortable
2 bothered	4 ease	1 kinds	3 quarreling	6 uneasiness
1 bothersome	1 easiness		3 quiet	6 uneasy
1 brains	1 easy	1 labor	1 quietness	2 unfortunate
1 brewing	1 ended	1 laugh		13 unhappiness
1 broke	1 enemies	1 lawyer	1 release	8 unhappy
1 burden	1 enemy	1 lessons	1 relief	1 unlucky
1 burdens	1 error	2 life	1 remorse	2 unnecessary
1 business	1 everywhere	1 little	1 rest	5 unpleasant
1 busy	1 exams	1 lonesome	2 reverses	3 unpleasantness
	1 excited	1 loss	1 Romeo	1 unrest
1 calm	2 excitement	5 lots	1 ruffled	1 unsafe
1 calmness				2 unsatisfactory
27 care	3 family	2 mad	6 sad	1 unsettled
3 cares	1 father	1 madness	13 sadness	2 upset
1 careless	3 fear	5 man	1 school	
4 children	1 feeling	1 many	1 scrape	1 want
1 college	1 few	2 marriage	1 sea	2 war
6 comfort	5 fight	2 me	1 seldom	1 weak
1 comforts	2 fighting	10 mind	1 serenity	3 weary
1 comfortable	1 flunking	1 minded	1 shadow	2 weeping
2 coming	1 fret	3 mischief	1 ship	1 welfare
1 consequences	1 friends	1 miserable	7 shooting	1 woe
2 contented	1 fun	14 misery	47 sickness	5 woman
1 contentment	1 funeral	6 misfortune	1 simple	1 women
1 court	3 fuss	1 misunderstanding	1 sin	8 work
1 cry		4 money	1 sleep	1 worked
1 crying	2 girl	1 monotony	1 sometimes	1 working
	2 gossip	1 mother	— 202 sorrow	3 worried
6 danger	2 great	1 Mrs. Wiggs	1 sorrows	2 worries
1 darkness	26 grief	5 much	4 sorrowful	65 worry
1 day			1 sport	1 worrying
16 death	1 handkerchief		1 squabble	5 worryment
2 deep	19 happiness	1 nervousness	1 study	2 wrinkles
2 despair	8 happy	3 no	1 suffer	2 wrong
1 difficult	5 hard	2 noise	1 suffering	
1 difficulties	6 hardship	4 none	1 sweetener	1 yesterday
1 difficulty	1 harm	1 nuisance	2 sympathy	1 youth

46. SOLDIER

1 academy	1 braveness	1 colonel	1 drums	1 fortune
1 armies	8 bravery	6 command	4 duty	
137 army	1 Brazilian	1 commanding		4 general
3 arms	1 brother	8 commander	1 enemy	1 Germany
1 Arnold	2 buttons	1 costume	1 England	1 glory
2 artillery		4 country	1 English	3 good
		5 courage	3 erect	1 Grant
	4 cadet			8 guard
1 baseball	2 camp	1 danger	1 fellow	1 guardian
8 battle	2 cannon	2 defender	17 fight	1 guardsman
1 bayonet	1 cap	1 defense	1 fights	27 gun
1 blood	8 captain	2 discipline	12 fighter	2 guns
1 blue	3 cavalry	1 disliked	12 fighting	
23 boy	14 citizen	1 double	1 firearm	1 helmet
1 boys	8 civilian	2 drill	2 fort	8 hero
46 brave	1 clothes			

1 him	2 marshal	5 patriot	1 salute	1 training
1 hobo	2 mechanic	1 patriotic	1 sentry	1 travel
1 home	17 military	1 patriotism	1 servant	1 troop
1 hurt	3 militia	3 person	1 service	1 troops
	1 murder	1 Philippines	1 show	
2 infantry	1 music	1 police	1 sick	89 uniform
	2 musket	6 policeman	1 single	1 United States
1 jacky		1 protection	1 smart	3 upright
1 Jim	1 N.	2 protector	1 sorrow	1 uprightness
	1 nation	1 proud	1 stateliness	
1 king	1 national		1 store	1 valiant
	2 navy	4 red	3 straight	3 veteran
5 lieutenant	1 necessary	1 redcoat	1 strength	3 volunteer
	1 nobility	1 regiment	1 strenuous	
		2 regular	1 strict	94 war
3 male	1 obedience	1 respectable	4 strong	1 warfare
189 man	1 obey	1 Richmond	2 sword	12 warrior
4 men	12 officer	3 rifle		3 West Point
1 manly	1 officers		2 tall	2 widow
12 march	1 order	58 sailor	1 tent	2 work
5 marching	2 orderly	1 sailors	4 tin	
1 marine				

47. CABBAGE

1 away	30 eat	30 head	3 onions	2 soup
	8 eating	1 heads		4 sour
1 bad	6 eatable	1 healthy	1 paper	1 spice
2 beans	3 eatables	2 heavy	1 parsley	1 spinach
11 beef		1 herb	16 patch	1 sprouts
1 beet	11 farm	1 home	48 plant	3 stalk
2 beets	1 farming	2 horrid	3 plants	1 stew
1 boiled	2 field		1 plantation	1 stinking
1 broth	2 fields	8 indigestion	1 planted	1 strong
1 bud	1 fine	1 kale	1 planting	1 sustenance
1 bunchy	4 flower	2 kraut	1 plate	2 sweet
	22 food		5 pork	
2 carrot	7 fruit	8 large	8 potato	3 taste
1 carrots		9 leaf	18 potatoes	1 tender
1 catsup	43 garden	1 purple	1 purple	2 tomato
17 cauliflower	1 German	11 leaves		2 tomatoes
1 cigar	1 Germans	11 letters	1 quart	20 turnip
1 cold-slaw	1 goat	1 lot		6 turnips
1 cook	13 good		2 rabbit	
4 cooking	44 green	2 meal	3 red	1 unnecessary
1 corn	3 greens	2 meat	2 rose	1 unwholesome
1 cucumbers	3 ground	2 Mrs. Wiggs	4 round	
1 cut	1 grow	1 mustard		1 Valhalla
	1 grows		5 salad	304 vegetable
1 decayed	2 growing	1 nice	17 sauerkraut	10 vegetables
1 disagreeable	1 growth	1 nothing	2 slaw	4 vinegar
2 dish			11 smell	1 Virginia
1 dislike	1 ham	2 odor	1 soapy	
4 dinner	2 hard	2 onion	2 solid	1 white

48. HARD

2 adamant	2 cabbage	1 earth	2 glass	1 indestructible
3 apple	1 callous	1 earthen	1 glittering	1 individual
1 apples	2 candy	17 easy	1 gold	1 indurated
	1 can't	2 egg	2 good	1 inflexible
2 bad	3 chair	1 eggs	1 granite	1 injustice
5 ball	1 character	1 examination	2 ground	1 irascible
1 baseball	7 coal			44 iron
1 bed	1 coarse	1 fare	1 hammer	
1 bench	1 cold	1 farmer	2 harsh	1 kind
1 blackboard	1 crystallized	1 feary	2 heart	
6 board		4 feeling	2 hearted	1 labor
2 boards	1 dense	11 firm	2 heavy	2 lead
1 bone	3 diamond	2 firmness	1 hickory	2 lemon
1 bread	3 difficult	1 flat	1 hurt	1 lignum-vitæ
1 break	1 disagreeable	4 flint		2 life
12 brick	1 do	16 floor	2 ice	1 low
2 brittle	1 durability	1 formidable	1 immovable	3 luck
3 bullet		1 fruit	1 impenetrable	

1 maple	2 pavement	1 rocky	1 strength	1 uneasy
3 marble	1 perplexing	11 rough	4 strong	1 unimpression-
1 mathematics	1 physics		1 stuff	able
2 mean	1 piano	1 saltpetre	6 substance	2 unpleasant
2 medium	1 principle	1 severe		1 unpliable
5 metal	1 pulpy	1 sidewalk	5 table	1 unripe
1 murder		15 smooth	1 tack	1 unyielding
1 mush	1 quality	387 soft	1 thick	1 uselessness
	1 questions	15 solid	1 tight	
1 nail		1 stale	2 touch	1 very
1 nails	1 raining	14 steel	12 tough	
1 natural	4 resistance	1 stick	2 tree	1 walnuts
1 nut	1 resistant	1 stingy	1 trouble	2 water
1 nuts	1 rigid	102 stone	1 turnip	1 wisdom
	1 road	1 stones		66 wood
1 oak	38 rock	1 stony	5 unbreakable	19 work
1 opaque	4 rocks	2 stove	5 uncomfortable	2 working

49. EAGLE

8 air	1 cruelty	1 graceful	3 paper	1 spread
1 altitude	4 dollar	1 gray	1 parrot	11 strength
7 America	5 dove	1 great	1 partridge	3 strong
12 American			1 peacock	1 sun
4 animal	1 eggs	18 hawk	2 pigeon	3 swallow
1 aspiring	8 emblem	1 height	2 power	1 swan
	12 eye	21 high	5 prey	4 swift
1 bald	1 eyed	1 insect	1 quail	1 swiftness
8 beak	1 eury	1 insignium	1 quarry	1 sword
2 breast				
2 bill	1 falcon	1 keen	1 robin	1 talon
568 bird	7 feathers	1 king	1 rock	1 talons
6 birds	1 fierce			1 tern
1 birdie	2 flag	9 large	1 scarce	1 Times
1 black	6 flies	1 lark	3 sharp	1 turkey
1 butterfly	22 flight	1 liberty	1 sight	
2 buzzard	1 flint	2 lofty	2 sky	2 United States
	46 fly		2 sly	
1 carnivorous	23 flying	2 might	5 soar	3 vulture
1 carrion	2 flyer	14 mountain	8 soars	8 wing
1 chickens	3 fowl	8 mountains	14 soaring	16 wings
2 claws	3 freedom		1 solitude	
1 clouds		12 nest	1 space	1 young
1 contour	1 glare	4 owl	6 sparrow	2 Zoo
1 crag	1 glorious		1 sport	
3 crow	2 golden			

50. STOMACH

32 abdomen	3 cancer	1 dress	5 gastric	2 internal
81 ache	1 care	1 duodenum	1 Gertrude	28 intestine
21 anatomy	2 careful	4 dyspepsia	4 good	32 intestines
2 animal	1 cat		1 grind	
5 appetite	1 cavity	45 eat	2 grinding	1 juice
1 apples	1 chart	27 eating		
2 arm	18 chest	8 empty	2 hand	4 large
	1 coll	1 engine	1 hands	1 leg
1 back	2 condition	1 excellent	9 head	1 limb
1 bad	1 contain		5 health	18 liver
7 bag		1 face	24 heart	1 living
1 basket	1 delicate	1 fat	1 hog	1 lung
2 beast	1 diaphragm	1 feed	6 hunger	3 lungs
1 beef	6 digest	1 feeding	6 hungry	
6 belly	1 digesting	1 feet	2 hurt	1 machinery
1 belt	50 digestion	102 food	1 hurts	5 man
1 biology	8 digestive	2 foot	1 hygiene	1 meal
99 body	2 digests	1 flesh		1 meals
18 bowels	7 dinner	1 frame	1 illness	5 member
1 brain	1 disease	1 front	17 indigestion	1 milk
1 bread	1 distress	7 full	6 inside	1 mortal
1 breast	2 doctor	1 function	2 interior	3 mouth
				1 muscle

2 nausea	28 pain	3 receptacle	1 specimen	5 troublesome
3 necessary	3 part	2 reservoir	1 strong	1 trunk
1 necessity	9 person	1 rest	1 suffer	3 tube
1 neck	3 physiology	3 round	1 suffering	
1 nuisance	1 picture	1 self	1 sustenance	1 upset
1 object	2 poor	10 sick	2 system	1 useful
1 oblong	1 portion	7 sickness	1 tender	2 vessel
4 oesophagus	4 pouch	1 skin	1 tenderness	
81 organ	1 psychology	2 small	1 thought	1 want
3 organs	3 pump	4 soft	1 throat	1 water
1 overeating	2 punch	1 sore	2 tongue	3 weak
1 overloaded	1 receiver	2 sour	25 trouble	1 weakness
			1 troubles	1 work

51. STEM

1 anything	1 ending	1 leg	3 piece	1 stiff
1 appendage	1 evolution	3 length	70 pipe	1 stone
43 apple		1 lettuce	1 pit	1 stop
1 apples	1 fibre	1 life	74 plant	1 storm
1 base	2 fibres	2 light	1 plow	2 straight
3 beginning	1 finger	1 lily	6 point	8 support
1 blade	259 flower	4 limb	1 poppy	
3 blossom	7 flowers	1 living	1 projection	4 thin
1 boat	2 foundation	18 long	1 prop	2 thorn
1 body	14 fruit	1 match	1 reed	2 tide
1 brain	1 grass	1 necessity	1 river	1 tobacco
33 branch	9 green	1 object	1 rod	1 top
1 branches	3 growth	1 offshoot	27 root	44 tree
1 broad		1 organ	1 roots	2 trees
1 broom	20 handle		21 rose	3 trunk
4 bud	1 hard			7 twig
5 bush	1 head		2 shank	1 valve
1 butt	2 hold	4 part	6 short	1 violet
	1 holding	1 parts	7 slender	3 vine
2 cane	4 holder	1 particle	1 small	
2 cherry	1 holes	2 peach	1 smoke	7 watch
3 connection		9 pear	1 soft	2 water
1 connects	1 join	1 peduncle	21 stalk	3 weed
2 cord		3 pencil	2 steps	3 wind
2 core	96 leaf	4 petal	6 stern	2 winding
	4 leaves	1 pick	14 stick	3 winder
10 end				4 wood

52. LAMP

1 Aladdin	1 crockery	8 glass	1 match	1 shadow
1 arc		7 globe		1 small
6 articles	1 dangers		1 nickle	4 smoke
5 black	3 dark	3 high	4 night	1 smokes
1 blaze	2 darkness	1 home		1 smoking
1 brass	1 daylight	1 hot	49 oil	1 smoky
12 bright	1 distance	1 house	1 ornament	2 stand
3 brightness	1 dull			1 stove
20 burn		2 illumination	1 petroleum	1 student
10 burning	5 electric		5 post	
3 burner	1 evening	7 kerosene	1 pretty	8 table
1 burns	5 fire			1 tall
	1 flame	1 lantern	2 reading	
13 candle	1 full	2 large	1 red	2 useful
2 chandelier	2 furniture	1 library	1 Rochester	
1 cheer		650 light	2 room	2 vessel
37 chimney	4 gas	2 lights		
1 convenience	1 glaring	4 lighted	2 see	1 warmth
		1 lighten	37 shade	23 wick
		2 lit		1 wisdom

53. DREAM

1 absence	1 eyes	2 lie	1 psychology	1 stale
1 angel		1 like	1 purple	1 startling
1 angels	2 falling	2 love		1 story
1 anger	9 fancy		1 queer	14 sweet
1 anything	1 fantasy	1 M.	1 quiet	
6 asleep	1 fear	2 man		1 talk
11 awake	1 feeling	1 mare	1 realization	1 terrible
1 awaking	1 feelings	1 meditate	1 recollection	8 things
1 awoken	1 forgotten	1 melancholy	1 relax	29 think
3 awakening	1 fortune	1 melody	1 remember	8 thinking
	1 funny	1 mesmeric	2 repose	38 thought
2 baby		8 mind	1 reposing	22 thoughts
16 bad	1 girl	1 money	3 rest	1 tiring
4 beautiful	7 good	1 music	6 restless	1 trouble
11 bed	1 goodness		1 restlessness	2 true
3 bliss	1 grand	2 nature	2 reverie	
1 book	1 grieving	1 never		1 uncomfortable
1 boy		3 nice	2 sad	1 unconscious
	2 hallucination	42 night	1 sadness	1 unconsciousness
1 comfort	3 happiness	24 nightmare	1 scene	1 uneasiness
2 consciousness	1 heaven	1 no	1 second	2 uneasy
1 conversation	3 home	1 none	1 semiconscious	1 unfortunate
	1 hope	2 nonsense	1 sensation	5 unpleasant
1 dangerous	3 horrible		1 sense	1 unpleasantness
1 darkness		1 object	1 shade	2 unreal
1 days	1 idea	1 omen	1 shadows	2 unrest
2 death	3 illusion	1 on	1 short	1 unstable
1 delusion	1 image	1 opium		
1 delusions	2 imaginary		2 sickness	
1 disagreeable	12 imagination	1 paradise	1 sight	1 vacancy
1 disappointment	5 imagine	1 patients	1 sights	1 vagueness
1 discontent	1 imaginings	1 peace	— 389 sleep	48 vision
2 disturbance	2 impression	2 peaceful	39 sleeping	6 visions
1 disturbing	2 indigestion	1 phantoms	2 sleeper	1 vivid
1 doze	1 insanity	3 picture	2 sleeplessness	
1 dread	1 inspiration	1 pillow	2 sleepy	9 wake
2 dreary		1 play	1 slept	1 waking
	1 kind	38 pleasant	20 slumber	1 wander
1 easy		13 pleasure	1 something	4 wandering
1 expectation	1 land	1 presentiment	1 somnambulist	1 weird
1 experiment	2 languid	1 prophesy	2 snore	2 wonder
			1 soliloquy	1 woods
				1 work

54. YELLOW

1 alive	1 coarse	9 flowers	2 hly	34 red
2 amber	301 color	3 fruit		1 ribbon
3 apple	1 coloring		1 maize	9 rose
1 autumn	1 common	1 G.	1 man	
	1 complexity	1 garments	1 marigolds	1 satin
5 banana	1 corn	1 gay	1 matter	1 school
3 beautiful	2 cream	1 glare	1 mellow	1 sear
2 beauty	1 crocus	13 gold	1 melon	4 shade
1 becoming		5 golden	1 molasses	1 silk
8 bird	3 daffodil	1 goldenglow		2 sky
24 black	3 daffodils	5 goldenrod	1 nature	2 soft
1 blossoms	6 daisy	1 goods	1 nice	1 spectrum
41 blue	7 dandelion	1 gorgeous		1 suit
23 bright	6 dark	1 grass	1 obnoxious	1 sulphur
2 brightness	1 delightful	41 green	1 ochre	21 sun
1 brilliant	1 desert		47 orange	8 sunflower
13 brown	1 disagreeable	2 hair		7 sunlight
1 buff	1 dog	2 house	5 paint	1 sunshine
7 butter	1 door	1 hue	2 pale	
11 buttercup	1 dream		3 pansy	1 table
2 buttercups	9 dress	1 ink	4 paper	2 tan
8 butterfly	1 dresses		2 peach	1 tarnish
	1 dull	2 jasmine	1 pears	1 tree
4 canary		3 jaundice	1 pillow	
1 cat	1 ecru	6 jealousy	13 pink	1 ugly
2 China	1 egg	1 jonquill	1 plague	1 unharmonious
3 Chinaman		2 journal	1 poppy	2 violet
3 Chinese	1 fade		4 pretty	
1 chrome	1 fancy	2 kid	1 primrose	1 wagon
1 chrysanthemum	1 fence		2 pumpkin	1 warm
1 chrysanthe-	3 fever	2 leaf	1 pumpkins	1 warmth
mums	4 flag	1 leaves	1 pure	1 wax
	1 flame	7 lemon	5 purple	1 wheat
3 cloth	38 flower	14 light		70 white

55. BREAD

1 appetite	6 crust	2 grain	1 milk	1 sour
2 bake	1 cut	1 ham	1 mixing	8 staff
4 baking	3 daily	1 hand		3 stale
3 baker	4 diet	8 hard	1 necessary	1 strengthen
1 bakery	6 dinner	2 heavy	2 necessity	2 substance
14 biscuit	1 dish	1 holes	1 needful	1 substantial
2 biscuits	26 dough	2 home	4 nourishment	1 sugar
4 blue	1 doughnuts	1 hot	1 oatmeal	1 sustenance
1 board	1 earn	7 hunger		4 sweet
1 box	148 eat	4 hungry	1 pantry	3 table
2 breakfast	44 eating	8 knife	1 pastry	2 tea
3 brown	28 eatable		1 plate	1 toast
1 buns	6 eatables	23 life	1 pudding	1 tough
151 butter	1 edible	8 light	1 roll	1 useful
15 cake	1 feed	1 living	2 rolls	
1 cheese	88 flour	7 loaf	6 rye	9 water
1 children	101 food	1 lunch	1 salt	21 wheat
1 color	3 fresh	1 making	1 salty	15 white
1 common	2 fruit	2 man	1 satisfaction	1 wholesome
1 cookies		1 meal	1 sister	1 wine
1 corn	21 good	5 meat	8 soft	1 winner
1 crackers	2 graham			8 yeast
1 crumbs				

56. JUSTICE

2 action	8 do	1 have	1 merit	4 satisfaction
2 administered	2 doing	1 heaven	1 mind	1 satisfied
1 administration	1 done	1 help	1 moral	1 satisfying
2 all	1 Dr. E.	1 him	1 mother	5 scales
1 always	5 duty	5 honest		2 severe
1 ask		3 honesty	1 never	1 severity
1 authority	1 elusive	7 honor	1 nobility	1 sorrow
1 B.	1 emblem		1 noble	8 square
1 bad	1 employer	1 impartial	1 none	1 squareness
1 bed	1 energy	1 iniquity	1 nonsense	1 squire
8 blind	8 equal	1 injury		4 statue
1 blindfolded	9 equality	26 injustice	1 obey	1 story
1 body	1 equally	1 innocent	1 obtain	8 supreme
	8 equity		1 oppression	2 sure
	2 even	1 J.	4 order	
1 caught	1 exactness	2 jail		1 tranquillity
1 charity	1 execution	1 joy	1 pardon	6 true
1 chastise		91 judge	4 partiality	14 truth
1 chief	82 fair	1 judged	148 peace	2 truthfulness
1 clearness	21 fairness	6 judgment	1 perfect	
1 comfort	1 favor	8 jury	1 person	1 unbias
8 command	1 fear	5 just	1 picture	1 unfairness
1 commanding	1 fine	4 justified	1 Plato	1 unhappiness
1 conqueror	6 freedom		1 police	8 unjust
1 constable	1 friendship	6 kindness	1 policeman	1 uprightness
64 court			1 politics	
2 courts	1 gift	1 lacking	1 popular	1 vengeance
1 Creator	1 give	1 large	1 power	3 virtue
1 crime	8 given	74 law	1 privilege	
1 criminal	8 God	2 lawful	1 purity	2 well
2 cruelty	1 godliness	4 lawyer		1 wicked
	14 good	2 lenient	1 reason	1 willingness
1 dealing	2 goodness	11 liberty	2 reward	2 wisdom
1 deeds	1 govern	1 lots	187 right	1 wise
1 defying	8 government	1 love	1 righteous	2 work
1 delayed	1 guilty		13 righteousness	8 wrong
1 demand		2 magistrate	1 rightly	
1 deserved	1 happy	13 man	1 rightness	1 yes
2 dispute	1 harm	1 merciful	11 rights	1 yield
1 distribution	1 hasty	28 mercy	1 ruler	

57. BOY

2 action	1 dog	1 incorrigible	1 mother	3 son
2 active		1 industrious	1 muscles	1 spirit
2 activity	1 Edward	2 infant	1 myself	1 spoiled
1 agility	1 eighteen	1 inhabitant		2 sport
3 animal	1 embryonic	1 innocent	1 naughty	1 street
3 athletic	1 errand		2 Ned	2 strength
2 athletics		1 jacket	1 nephew	3 strong
6 baby	1 fair	2 James	1 newspaper	2 suit
9 bad	3 female	1 Jimmy	3 nice	1 sweetheart
10 ball	1 fight	1 Joe	7 noise	1 swimming
1 barefoot	1 flesh	1 joyful	3 noisy	
5 baseball	1 foolish	1 jump	1 nuisance	3 tall
1 beautiful	1 football	1 jumper		1 terror
6 being	1 Frank	2 juvenile	1 obedient	1 think
1 Ben	4 friend		1 out	1 Thomas
2 body	2 frolic	4 kid		2 top
1 boisterous	4 fun	7 lad	6 pants	1 toys
1 book	1 funny	2 large	1 Paul	1 Tracy
2 bright	1 games	1 laugh	11 person	1 trait
6 brother	--- 319 girl	1 legs	20 play	1 tramp
2 busy	7 good	2 life	1 plays	1 trouble
	1 grown	3 little	1 playfulness	1 useless
1 cap	1 growth	3 lively	2 pupil	1 walk
1 careless	2 gun		6 rough	1 water
1 Charles		1 maid	1 running	1 whistle
1 chicken	1 handsome	63 male	1 runs	1 whistles
86 child	1 Harry	104 man		1 wicked
1 children	1 hat	1 manhood	1 scallywag	2 wild
1 class	1 head	1 mankind	2 scamp	1 wildness
1 clothes	1 hearty	1 manliness	1 scholar	2 woman
1 clothing	1 hero	1 manly	11 school	1 woods
2 companion	2 hood	1 marbles	4 sex	1 work
1 cousin	2 hoop	3 masculine	1 sharp	1 working
1 curls	9 human	2 master	2 shoes	
	1 humanity	1 meanness	14 small	22 young
1 dead		1 Michael	2 smart	1 youngster
1 development	1 imbecile	11 mischief	1 smiles	33 youth
2 dirty	1 imperfect	7 mischievous		1 youthful

58. LIGHT

1 agreeable	--- 231 dark	1 glare	7 morning	1 sign
8 air	98 darkness	1 gleam		8 sky
1 airy	2 dawn	3 good	1 nice	1 soft
1 arc	81 day		3 night	1 sound
1 assistance	2 daylight	2 hair	1 necessity	1 space
1 awake	6 daytime	4 happiness		1 splendor
	1 dimness	1 health	1 paper	1 steam
1 beacon	1 distance	1 healthy	1 pathway	85 sun
2 beautiful	1 dress	1 hearted	1 peaceful	1 sunlight
1 beautifying	1 dull	8 heat	1 pink	11 sunshine
1 beauty		1 heaven	1 pipe	1 swift
1 biscuit	2 early	5 heavy	1 placid	
8 black	1 easy	1 hills	3 pleasant	1 transparent
2 blue	1 education		1 pleasure	1 truth
1 bread	7 electric	1 illuminate	1 plenty	1 twilight
47 bright	8 electricity	7 illumination		1 ventilation
21 brightness	1 element	1 joy	2 rays	1 Vera
3 brilliant	1 emptiness	1 red	1 reflection	1 vibration
1 brown	1 enjoy	1 kerosene	1 right	2 vision
2 burn	1 evening	1 knowledge	3 room	1 vivid
1 burning	1 eyes			1 waist
		1 laboratory	24 see	2 warmth
3 candle	1 fair	82 lamp	3 seeing	1 waves
1 cheer	6 feather	1 lamps	1 seen	1 weak
2 clear	1 feathers	7 life	8 shade	2 weight
2 clearness	6 fire	1 long	2 shadow	8 white
2 coat	1 flame	1 look	1 shadows	2 whiteness
19 color	1 fleshy	1 luminous	2 shine	15 window
2 comfort	1 forward		2 shines	1 world
1 complexion	1 fuel	1 match	2 shining	
1 convenient		10 moon	3 sight	6 yellow
1 cork	21 gas			

59. HEALTH

1 action	3 desirable	111 happiness	1 optimism	5 sound
2 activity	9 disease	7 happy		1 spirit
9 air	4 doctor	1 haste	1 pain	1 spirits
1 athletics		1 healing	8 perfect	1 state
	1 eating	1 healthful	6 person	112 strength
5 bad	5 enjoyment	1 healthy	3 physical	1 strengths
1 baseball	2 everything	1 heaven	1 physician	31 strong
1 beautiful	1 excellent	2 holiness	1 physiology	1 sturdy
10 beauty	1 excursion	2 hygiene	1 play	1 success
1 better	3 exercise		2 pleasant	
4 blessing	1 existence	3 ill	14 pleasure	1 temper
1 blood		18 illness	1 plenty	2 thankful
1 board	1 face		2 poor	1 trouble
9 body	2 feel	6 joy	1 preserve	
1 boon	12 feeling		1 proper	1 unhealthiness
2 boy	1 fine	5 life	4 prosperity	3 unhealthy
1 broad	4 food	1 light		2 useful
2 buoyancy	1 form	1 live	1 quick	
	2 fortune	3 living		1 valuable
1 care	2 luck	2 luxury	1 red	11 vigor
1 careful	1 fun		3 riches	1 virility
1 cheer		4 man	9 robust	
1 circulation	3 gift	1 nie	1 rose	1 walking
1 cleanliness	1 girl	3 rosy	1 round	2 want
1 climate	2 gladness	3 medicine	2 rugged	1 warm
1 color	1 glow	1 merriment		1 water
26 comfort	1 golf	1 mother	1 self	1 weakness
6 condition	94 good	1 mountain	9 sick	76 wealth
1 constitution	1 goodness	1 moving	2 sickly	63 well
1 consumption	2 grand		— 153 sickness	1 wholesome
1 contentment	1 gymnasium	1 necessary	1 smiles	1 woman
1 convenience	1 gymnastics	1 needed		1 wonderful
2 country		1 needful		
		4 normal		1 youth

60. BIBLE

1 academy	1 encyclopedia	1 Jacob	1 paper	1 sour
1 all	1 excellent	4 Jesus	1 piety	1 stones
1 ancient		2 knowledge	2 pious	2 stories
	1 fable	1 Koran	3 pray	4 story
1 beauty	1 faith	4 large	2 praying	1 strength
1 belief	2 family	3 law	19 prayer	2 studies
1 beneficial		1 leaf	7 prayers	6 study
2 black	1 Genesis	1 leaf	13 prayer-book	6 Sunday
388 book	1 glass	1 leaves	2 preacher	
1 books	48 God	1 lectern	1 preaching	3 table
	28 good	1 legend	1 prophet	1 teach
1 catechism	13 goodness	2 lie	4 psalms	1 teacher
8 Christ	3 gospel	3 life		1 teachings
3 Christian	1 gospels	2 light	1 rarely	24 Testament
60 church	1 grand	2 literature	31 read	4 text
3 class	1 guide	5 Lord	19 reading	1 tradition
1 clean		2 love	1 reformation	2 true
1 clergyman	2 heaven		30 religion	17 truth
2 comfort	1 heavy	1 message	4 religious	1 truthfulness
2 command	1 help	1 mine	1 reverence	
1 commandment	26 history	3 minister	1 righteous	1 unnecessary
2 commandments	5 holiness	2 Moses	3 rot	2 useful
1 creed	57 holy	1 mother		
	2 home		3 sacred	1 verses
1 devotion	1 hope	1 necessary	2 Saviour	
1 directions	2 hymns	1 noble	2 school	1 weariness
1 drama			17 scripture	8 word
2 duty	1 instructive	2 obey	3 scriptures	1 words
		1 open	1 sermon	2 worship
			1 shelf	1 writ

61. MEMORY

2 absent	1 English	5 intelligence	1 patient	1 song
1 acquire	1 Europe	1 interpret	1 pen	2 sound
1 aid	2 events	1 invisible	2 perception	1 splendid
1 analysis	1 everything		2 person	1 stanza
1 ancient	2 excellent	1 joy	2 picture	1 storehouse
2 association	1 experiment		1 pictures	1 story
1 attention		1 keep	1 pleasantness	1 strengthen
1 attitude	1 faces	1 know	2 pleasure	1 strong
1 aunt	1 faculty	4 knowledge	3 poem	1 student
	1 failing		1 poems	4 study
1 back	1 fails	2 lack	7 poetry	1 studying
19 bad	4 fair	2 lacking	23 poor	1 sure
1 beautiful	1 fancy	1 language	1 power	7 sweet
1 bird	1 far	1 lasting	1 psychology	1 swift
3 blank	1 farther	1 learn	1 quick	1 swing
2 book	1 fascination	2 learning		
3 books	1 faulty	1 lecture	1 reading	1 teacher
46 brain	1 feeling	1 length	1 reason	1 tender
5 brains	1 fine	2 lessons	4 recall	5 test
1 brightness	1 fleeting	1 light	2 recalling	1 thankful
1 bucket	1 fond	3 long	3 recognition	1 things
	1 fool	1 loss	2 recollect	58 think
1 catechism	25 forget	1 love	16 recollection	38 thinking
1 cause	5 forgetful		3 recollections	1 thinks
1 charming	37 forgetfulness	1 magnificent	1 reflect	81 thought
4 childhood	5 forgetting	3 man	27 remember	28 thoughts
1 clear	3 forgotten	1 marvelous	4 remembering	8 thoughtful
2 concentration	1 forty	1 me	18 remembrance	8 thoughtfulness
1 connection	1 friends	1 memorandum	2 remind	1 thoughtlessness
1 conscience		1 memorizing	1 reminder	1 time
2 consciousness	2 gone	4 mental	2 reminiscence	1 train
	68 good	138 mind	1 reminiscences	1 training
1 dancing	1 gravestone	1 mindful	1 reproductive	1 tree
1 death	1 great	2 mnemonics	1 result	
1 debts	2 green	1 mother	1 retain	1 unconsciousness
2 defect		1 mud	2 retaining	3 understand
1 defective	1 happiness	1 my	5 retention	6 understanding
1 desirable	1 happy	1 myself	3 retentive	1 unstable
1 deterioration	9 head	1 names	1 retrospect	2 useful
1 dictionary	1 hearing	3 necessary		
1 dim	2 history	1 necessity	1 sadness	2 verses
1 distant	2 home	1 needful	1 scenes	
1 dream	1 hopefulness	1 noble	1 scholar	1 weak
3 dreams		1 none	6 school	1 well
1 dull	2 idea		1 sensation	1 will
	1 image	1 oblivion	5 sense	1 wit
1 easy	2 imagination		2 senses	1 wonderful
1 educated	1 impossible	1 painful	7 short	2 work
1 effort	1 increase	8 past	1 simple	
1 elusive	7 intellect			2 youth

62. SHEEP

—225 animal	1 eat	1 group	5 meat	1 rocks
18 animals			1 meekness	1 run
1 astray	4 farm	1 hair	3 mountain	1 running
1 awkward	1 feed	1 harmless	60 mutton	
	12 field	4 herd		1 shear
1 baa	6 fields	1 herder	1 nature	1 shearing
3 beast	3 fleece	1 hill		1 shears
1 bed	1 flesh	2 hillside	1 oxen	15 shepherd
1 Bethlehem	24 flock	1 horn		1 simple
5 black	1 flocks	1 horse	2 park	1 sleep
1 blind	4 fold	1 humanity	27 pasture	2 small
1 buffalo	1 follow		3 pastures	1 soft
	2 food	5 innocence	1 peace	1 spring
1 calf	1 foolish	2 innocent	1 peaceful	2 stock
1 calm	1 fowl		1 pet	1 stupidity
47 cattle	1 fur	1 jump	1 picture	1 tick
1 cloth			2 pig	1 trust
3 country	1 gentle	151 lamb	1 plains	
22 cow	1 gentleness	36 lambs	1 play	1 wander
5 cows	1 goad	1 landscape	4 pretty	1 water
	17 goat	2 large	2 quadruped	18 white
1 death	10 goats	1 lecture	1 raising	2 wolf
2 deer	2 good	1 lowing	1 ram	10 woolly
2 dirty	4 grass			
6 dog	1 graze	1 many		
2 dogs	5 grazing	3 meadows		

63. BATH

1 baby	1 dry	2 invigorating	2 pleasure	1 springs
1 basin			2 plenty	10 swim
2 bathe	1 English	1 joy	3 plunge	5 swimming
6 bathing	1 every		1 porcelain	
1 beneficial		1 large		1 take
1 boat	1 filth	1 luxury	1 refreshed	1 taken
1 boy	1 filthiness		6 refreshing	2 toilet
	1 fine	1 man	1 refreshment	6 towel
120 clean	1 flowers	1 massage	2 river	2 towels
1 cleaning	1 fluid	2 morning	3 robe	71 tub
109 cleanliness	2 fresh		6 room	
2 cleanly		1 nakedness		1 vapor
9 cleanness	7 good	1 neatness	1 salt	1 vessel
6 cleanse		5 necessary	1 sanitary	
8 cleansing	9 health	2 nice	1 scrub	1 want
14 cold	1 healthful	1 none	1 sensation	3 warm
3 comfort	1 healthiness		3 shower	102 wash
3 cool	4 healthy	6 ocean	1 sleeping	16 washing
1 Creal Springs	10 hot	1 often	18 soap	—339 water
	4 house	1 once	1 soothing	5 wet
1 delight		3 pleasant	1 sponge	1 wood
4 dirt	1 invigorates		4 spray	
5 dirty				2 yesterday

64. COTTAGE

2 abode	2 door	1 ivy	1 patients	1 simplicity
1 agreeable	23 dwelling		1 peace	1 sleep
1 alone		5 lake	1 people	30 small
1 apartments	2 family	1 lane	1 picturesque	1 snug
	1 far	1 large	1 place	1 stands
2 barn	4 farm	4 lawn	1 pleasantness	3 structure
1 beach	1 fence	4 little	1 pleasure	9 summer
1 beautiful	6 field	17 live	1 pond	1 sweet
1 box	2 fine	5 living	4 porch	1 Switzerland
3 brick	4 flowers	1 log	1 prettiness	
1 brook	2 frame	1 lonesomeness	3 pretty	1 table
2 brown		4 love	1 pudding	4 tent
31 building	7 garden	2 low		2 thatched
13 bungalow	3 green	1 lumber		1 tower
			1 reside	1 trees
3 cabin	1 habitable	1 Maine	4 residence	3 two
1 camp	3 habitation	15 mansion	1 resort	
2 camping	1 hamlet		3 rest	1 unity
1 Cape Cod	1 hammock	1 name	1 river	2 vacation
2 castle	1 handsome	3 neat	1 rod	1 veranda
1 chair	5 happiness	1 Newburgh	3 roof	1 villa
1 cheese	1 happy	4 nice	1 roomy	3 village
3 city	3 hill		2 roses	1 vine
15 comfort	85 home	2 one	1 rustic	3 vines
2 contentment	1 homelike	1 open		
1 cottage	1 homestead	1 orchard	1 school	3 white
36 country	1 hope	1 outing	10 sea	2 window
2 couple	1 hospital		5 seashore	1 woman
2 cozy	—461 house	1 painted	2 seaside	11 wood
1 cute	1 houses	2 palace	6 shelter	1 wooden
		2 parsonage	2 shingles	3 woods
1 distant	1 innocence	1 patient	2 shore	1 yard

65. SWIFT

2 active	7 deer	1 hear	1 near	4 slowly
2 aeroplane	1 degree	1 high	1 Niagara Falls	16 smart
1 ahead	1 doctor	28 horse		1 smartness
1 antelope	2 dog	12 hurry	1 power	3 smooth
13 arrow		1 hurrying	117 quick	29 speed
11 automobile	8 eagle		13 quickly	1 speedily
1 autos	2 easy	1 Indian	5 quickness	1 speeding
	3 engine		1 quiet	7 speedy
6 ball		1 kite		1 spinchilled
1 beauty	--- 222 fast		6 race	2 spry
1 better	1 fastness	1 launch	27 rapid	1 steam
1 bicycle	1 fear	1 lazy	2 rapidity	1 sting
16 bird	1 fish	2 light	2 rapidly	1 stone
1 birds	5 fleet	4 lightning	1 real	8 stream
1 boat	6 flight	3 lively	1 riding	2 strong
1 brisk	3 fly		18 river	2 sure
1 brook	3 flying	1 man	1 rivers	5 swallow
3 bullet	1 foot	1 Marathon	1 road	1 swallows
		1 Mercury	1 rocket	
1 cat	1 girl	1 messenger	19 run	1 throw
1 channel	1 go	1 meteor	20 running	2 tide
1 child	1 going	1 more	13 runner	1 time
1 choice	1 good	1 morning	1 rushing	18 train
1 clever	1 grand	2 motion		1 trains
1 creek	1 Greek	1 motoring	1 sail	
7 current		2 movement	1 sharp	1 walking
1 curve	1 hard	1 moving	1 shot	11 water
1 cutting	1 hare	1 muscles	1 sleigh	8 wind
	1 haste		190 slow	1 work

66. BLUE

1 air	1 cold	1 good	1 necktie	1 skies
1 azure	--- 256 color	2 grass		239 sky
	2 colors	10 gray	12 ocean	1 soft
1 ball	2 coloring	54 green		1 somber
1 beautiful		1 hat	3 paint	1 space
1 becoming	1 dainty	5 heaven	1 pale	1 stripes
1 bell	24 dark	2 heavens	1 paper	1 suit
1 binding	5 deep	1 heavenly	1 pencil	
5 bird	1 depth	1 homesick	9 pink	2 tie
88 black	18 dress	1 hopeful	2 pleasant	1 tint
1 blood	1 dull	1 horizon	1 pleasing	7 true
1 blossom	1 ether	1 house	1 policeman	2 truth
1 blotter	6 eyes	1 hue	4 pretty	1 turquoise
1 bluebird			1 purity	
2 bluing			2 purple	1 unhappy
1 bluey	1 fair	5 indigo		1 unrest
1 book	4 feeling	6 ink	54 red	
5 bright	1 fidelity	1 lake	1 restful	1 velvet
8 brown	6 flag	8 light	3 ribbon	2 violet
	3 flower	1 lily	1 river	3 violets
1 cadet	1 forget-me-not	1 lonesome	1 room	2 washing
1 chemical				8 water
1 clock	1 gentian	2 melancholy	2 sad	47 white
7 cloth	1 globe	1 Monday	1 sailor	2 wind
3 clothes	2 gloominess	1 navy	7 sea	
1 clothing	2 gloomy		1 serge	2 Yale
1 cloud	1 glum		2 shade	27 yellow

67. HUNGRY

1 aching	2 appetizing	4 beggar	1 candy	1 crackers
1 ambitious		1 biscuit	5 child	1 crave
1 angry	2 baby	5 boy	5 children	7 craving
2 animal	8 bad	26 bread	4 cold	1 cupboard
1 appeasing	1 bananas	8 breakfast	1 college	
57 appetite	1 bear	1 butcher	1 country	1 dark

1 desirable	4 fatigue	1 lion	1 perishing	2 steak
11 desire	1 fatigued	5 longing	2 person	13 stomach
1 devil	4 fed	4 lunch	2 picnic	1 suffering
1 devour	1 feel		2 pie	1 sufficiency
31 dinner	8 feeling	5 man	2 plenty	1 sufficient
1 disagreeable	1 fill	4 me	1 plow	2 supper
4 discomfort	4 filled	1 meal	6 poor	
1 displeasure	—136 food	3 meat	1 potatoes	1 table
1 dissatisfaction	1 form	1 milk	2 poverty	12 thirst
1 dissatisfied	1 fulfilment	2 miserable	1 present	61 thirsty
1 distress	9 full	1 misery		1 thought
14 dog	3 fruit		1 ravenous	1 tiger
1 dogs		1 nausea	1 repletion	12 tired
1 dry	1 gaunt	1 necessary		1 tiresome
	1 Gertrude	2 need	1 sad	3 tramp
126 eat	1 girl	1 needy	2 sandwiches	1 traveling
64 eating	2 gnawing	1 never	3 satiated	1 uncomfortable
2 eatables	1 good	1 nice	2 satiety	1 unhappiness
1 emotion	1 grub	1 no	14 satisfied	4 unhappy
4 emptiness		1 noon	2 satisfy	4 unpleasant
13 empty	1 hardship	1 nothing	1 school	3 unsatisfied
2 exhausted	1 Henrietta	1 nourish	1 sensation	
	1 hog	2 now	1 sharp	1 very
9 faint	1 horse		1 ship	1 viands
1 fainting	2 hunger	1 ocean	1 sick	1 victuals
5 famine		1 often	1 sleepy	
1 famish	3 I		1 slow	1 walk
11 famished	1 ice-cream	5 pain	2 sorrow	25 want
1 famishing		1 painful	10 starvation	5 wanting
1 fascinating	1 kitchen	1 pallid	8 starve	5 weak
3 fast		1 pang	15 starved	3 weakness
5 fasting	2 lack	1 peaches	29 starving	2 wish
				10 wolf

68. PRIEST

3 altar	1 conscientious	2 heaven	12 nun	8 robes
1 authority	1 console	1 high	1 office	1 ruler
	1 counsellor	3 holiness		
1 belief	1 crucifix	15 holy	11 parson	2 sacred
3 Bible		2 honor	11 pastor	1 sacrifice
6 bishop	1 dignified	2 hood	1 people	1 sanctity
13 black	2 discipline	1 house	3 person	1 school
1 blessing	1 discontent	1 humble	1 piety	1 sent
1 book	1 dishonor	2 hypocrite	4 pious	1 serious
1 boy	1 dislike		3 Pope	3 sermon
1 brother	1 divine	1 inspired	1 power	1 sermony
	1 divinity	1 instruction	1 praise	2 servant
1 cassock	5 doctor		3 pray	2 service
2 cathedral	1 doing	2 Jew	1 prayers	1 services
36 Catholic	1 dominie	1 just	8 prayer	2 shaven
2 Catholics	1 dress	1 justice	1 prayers	1 shoot
4 Catholicism	1 Dr. K.		3 preach	1 sinner
1 ceremony	1 duty	1 kind	2 preaches	1 sister
1 chancel		1 knowledge	35 preacher	1 slim
2 chapel	1 exalted		2 prelate	1 solemnity
1 childhood		2 layman	2 priestess	1 sometimes
166 church	2 faithful	4 leader	1 profession	1 spookism
1 clean	2 fakir	1 lecture	3 prophet	1 stern
30 clergy	1 fakirs	1 Levi	1 pulpit	1 student
62 clergyman	3 fat	2 Levite	2 purity	2 Sunday
1 cleric	15 father	1 Lord		3 surprise
2 clerical	1 follower		2 rabbi	
1 cloister	1 forgive	5 male	57 religion	1 table
1 cloth	1 forgiveness	75 man	7 religious	2 teacher
1 clothes		5 mass	1 representative	
1 collar	2 garb	—178 minister	1 repulsive	1 ugly
1 comforter	1 gentleman	5 monastery	1 reserved	
1 command	2 God	9 monk	1 reverend	1 vest
1 communion	9 good	1 moral	2 righteous	1 vicar
5 confession	1 goodness		1 road	
2 confessor	6 gown	1 noble	12 robe	1 York

69. OCEAN

1 afraid	1 crossing	1 Hudson	12 rough	2 swim
1 angry	1 current			1 swimming
11 Atlantic		1 immense	2 sail	
	1 dark	2 immensity	2 sailing	1 tide
1 barge	87 deep	2 infinity	10 salt	1 terrible
3 bathing	1 deepness	2 joy	2 sand	1 traveling
3 bay	10 depth		1 Sandy Hook	1 trip
5 beach	1 depths	12 lake	75 sea	
1 beautiful	2 distance	8 land	3 seas	1 valley
5 big		9 large	2 seashore	7 vast
1 bigness	1 enormous	1 launch	1 seething	9 vastness
1 billows	1 Europe	1 liquid	1 shining	2 vessel
25 blue	2 expanse	1 Maine	24 ship	1 voyage
6 boat	1 expansive	11 ships	2 shore	1 waste
1 boats		1 Mauretania	1 sky	427 water
2 body	1 float	1 might	1 sound	1 waters
1 boisterous	2 foam	3 mighty	1 storm	12 wave
3 breadth		2 motion	1 storms	45 waves
1 breeze	2 grand	1 power	1 steamboat	1 wavy
3 broad	2 grandeur	1 pretty	14 steamer	2 wet
1 Byron	3 great	1 quantity	1 steamers	1 white
	1 greatness		1 steamship	15 wide
1 Cape Cod	2 green	36 river	4 stream	1 wonder
2 Coney Island	2 Grove	1 roars	1 swiftness	1 wonderful
1 country	1 gulfs			

70. HEAD

1 above	1 combs	3 good	14 man	4 scalp
9 ache	1 consciousness	1 govern	1 man's	3 sense
1 aches	1 cover	1 great	1 masterpiece	1 senses
8 anatomy	1 covered		1 medium	1 sensible
2 animal	2 cow	159 hair	7 member	4 shape
1 appearance	11 cranium	11 hand	3 memory	1 shaped
2 arm	1 crown	2 hands	1 mentality	1 shoulder
3 arms		1 handsome	14 mind	12 shoulders
1 asymmetrical	1 director	2 hard	1 mouth	5 skull
	1 donkey	17 hat		7 small
1 baby's		1 headless	1 nail	2 sore
2 back	1 ear	8 heart	1 nation	1 square
1 bald	1 ears	2 heels	17 neck	2 statue
1 ball	1 emptiness	3 high	2 nose	2 stomach
1 beautiful	1 empty	2 highest		1 strong
1 beginning	1 encephalon	2 hot	5 organ	2 superintendent
5 big	1 end	1 house		1 symmetry
1 black	1 extremity	4 human	1 pain	
146 body	2 eye		6 part	3 tail
1 bonehead	10 eyes	1 individual	1 people	1 teeth
1 boss		2 intellect	15 person	2 thick
58 brain	13 face	3 intelligence	2 physiology	9 think
32 brains	1 father	1 king	1 planning	6 thinking
1 branch	1 feature	1 knee	1 Pope	16 thought
1 bright	2 features	17 knowledge	3 power	4 thoughts
1 brown	26 feet		2 president	1 tired
	1 figure	19 large	1 pretty	31 top
7 cabbage	1 firm	1 leadership	2 principal	2 trunk
3 captain	2 first	1 leading	1 procession	
1 cattle	1 food	1 life		2 useful
2 cavity	64 foot	2 light	1 quarters	
2 chest	1 forehead	3 limb	2 rest	1 whirl
2 chief	1 front	1 limbs	21 round	1 wit
1 chop		1 little	1 roundness	1 woman
1 clear	1 girl	1 long	3 ruler	2 woman's
2 comb	1 glasses	1 louse		1 work

71. STOVE

3 article	1 dinner	213 heat	4 lid	1 round
1 bake	1 dirt	1 heating	8 lifter	1 rusty
1 baking	1 dishes	1 heats	1 light	
59 black	217 fire	5 heater	1 long	1 shovel
4 blacking	3 fireplace	2 heavy		1 sink
1 box	1 flame	1 home	2 metal	2 small
1 breakfast	3 food	86 hot		1 smoke
2 bright	1 Franklin	2 house	1 oil	3 steel
12 burn	1 fry	1 household	1 oven	1 structure
2 burning	1 fuel	1 icebox	1 painful	1 teakettle
1 chair	6 furnace	1 implement	18 pipe	
1 chimney	8 furniture	2 instrument	1 pipes	1 using
25 coal	1 furnitureess	51 iron	5 poker	2 utensil
2 comfort	7 gas	1 isinglass	10 polish	
24 cook	1 German	4 kettle	2 radiator	32 warm
34 cooking	2 good	11 kitchen	19 range	42 warmth
1 cooks	1 grate		1 receptacle	1 water
3 cover		3 lamp	1 red	2 winter
1 dark	2 hard	2 large	2 room	7 wood
	1 hardware	2 legs		1 zinc

72. LONG

1 age	1 elongated	7 large	1 reed	1 stupid
1 anxiety	1 endless	1 lasting	8 ribbon	1 summer
1 arm	1 enough	1 lecture	1 ride	
1 arms	2 eternity	1 legs	15 river	3 table
2 avenue	1 extended	50 length	32 road	26 tall
1 away	1 extension	1 rod	1 test	1 test
	1 extensive	1 level	1 room	2 thin
1 barn	1 extent	4 life	7 rope	2 thread
1 beach		5 line	1 row	1 throw
1 bench	8 far	1 linear	1 rug	15 time
1 big	1 feet	1 live	2 rule	1 tiresome
1 blackboard	1 fellow	1 Lusitania	4 ruler	1 tower
2 board	2 fence			3 track
6 boat	1 flagpole	5 man	1 shape	2 train
1 book	1 foot	7 measure	1 sharp	4 tree
1 boulevard	1 for	2 medium	1 shore	1 trip
1 bridge		1 meter	413 short	
2 broad	2 giant	13 mile	1 shovel	1 vast
1 Brooklyn	1 girl	1 miles	1 slender	1 very
1 Bridge	2 glass	1 Mississippi	1 slim	
1 broomstick	4 grass	1 much	1 slow	1 wait
1 building	1 great		1 small	2 waiting
		1 name	2 snake	7 walk
1 cable	2 hair	15 narrow	1 something	1 walking
1 chimney	2 hall	2 night	1 space	1 walls
1 coat	1 head	1 nose	1 spacious	6 way
1 courage	1 height		1 spire	1 ways
1 craving	5 high	1 oblong	1 square	1 weary
	1 hill		1 stay	1 whale
9 day	1 hose	2 path	1 steamer	1 while
1 days	1 hours	1 person	1 steeple	7 wide
1 deep	1 house	1 pin	8 stick	1 winter
1 depth		1 pipe	1 sticks	1 wire
1 desirable	2 Island	1 plant	2 story	1 wishing
1 dimensions		1 plenty	1 straight	1 without
81 distance	8 journey	20 pole	6 street	1 worm
3 distant			1 streets	
6 dress	1 labor	4 railroad	1 strength	4 yard
1 duration	3 lane	1 railway	2 stretch	2 year
	2 lanky	1 rails	6 string	

73. RELIGION

1 Abraham	2 different	1 honor	1 obey	2 science
1 aesthetics	1 difficult	1 house	3 opinion	1 scripture
1 aim	1 dislike	1 hypocrisy	1 order	3 sect
1 all	1 divine		1 orthodox	2 sectarian
1 anything	4 doctrine	2 idea		1 self
1 association	1 dogma	1 ideas	1 paganism	3 service
2 atheism	2 doubt	1 ignorance	3 peace	1 sheeney
4 atheist	1 Druids	1 indefinite	3 people	1 society
	1 duties	1 indiscreet	1 perfect	1 solace
2 Baptist	2 duty	1 institutions	1 persecution	1 somewhat
1 beauty		1 irreligion	2 person	1 soul
39 belief	1 emotion	1 irreligious	3 persuasion	1 spirituality
1 beliefs	4 Episcopal		13 piety	1 stability
2 believe	1 Episcopalian	3 Jesus	13 pious	1 standby
1 believing	1 eternity	3 Jew	2 poor	1 study
1 believer	2 ethics	1 Jews	1 Pope	1 superstition
1 belong	1 everyday	4 Jewish	1 powerful	
1 belonging		1 just	2 practice	1 tabernacle
52 Bible	1 fair		2 pray	1 table
1 body	47 faith	2 kind	2 praying	1 teaching
2 books	1 fake	1 knowledge	21 prayer	1 temperament
3 brain	2 fanatic		5 prayers	2 temple
1 Buddha	1 fanaticism	1 law	2 prayer-book	2 think
	1 feeling	1 learning	2 preacher	1 thinking
1 catechism	1 fine	4 life	2 preaching	12 thought
56 Catholic	2 foolish	1 living	3 Presbyterian	1 thoughtful
2 ceremony	1 free	1 Lord	28 priest	1 training
1 China		1 Lutheran	3 profession	1 true
8 Christ	1 gentile		1 professor	1 trust
14 Christian	1 German	1 man	30 Protestant	6 truth
7 Christianity	31 God	1 men	1 pulpit	
1 Christlike	1 godly	1 mankind	2 pure	1 uncertain
161 church	46 good	1 many	1 puzzle	1 uncertainty
4 churches	10 goodness	1 mental		1 unknowable
1 churchman	2 gospel	1 Methodism	1 question	
1 civilize	1 government	7 Methodist		1 virtuous
1 clergyman	3 guide	15 minister	1 race	1 vow
4 comfort		1 modesty	1 rector	
1 commandments	3 happiness	2 Mohammed	2 religious	1 want
1 conduct	1 harmony	2 morals	3 reverence	1 wickedness
1 Congregational	1 health	1 mystic	2 right	1 wide
2 conscience	3 heathen		2 righteousness	1 woman
1 conversion	8 heaven	2 nationality		1 wonder
2 Creator	1 Hebrew	1 need	1 sacrament	1 wonderful
33 creed	2 helpful	1 no	4 sacred	1 work
1 custom	1 hereafter	5 none	1 sacredness	14 worship
	1 heresy	2 nothing	1 saintly	1 worshipping
1 deep	2 history	1 nun	1 saints	
11 denomination	4 holiness	1 nuns	2 salvation	1 Yankee
4 devotion	10 holy		1 scholastic	

74. WHISKEY

1 abomination	24 brandy	1 deviltry	2 evil	2 hot
50 alcohol	1 breath	1 Dewar's		1 hotels
1 ale	1 burn	1 disagreeable	1 fast	1 Hunter
1 amber	4 burning	1 discontent	4 fire	
1 appetizer		1 disgust	1 flask	1 indulge
1 apple	1 Carrie Nation	1 distillery	4 fluid	1 indulgence
1 awful	1 cider	1 distress	1 food	1 inebriety
	1 closet	1 dope	1 full	1 insanity
35 bad	1 color	1 dreadful		5 intemperance
1 barley	1 corn	232 drink	8 gin	13 intoxicant
2 barrel	4 curse	1 drinks	3 glass	2 intoxicants
1 bed		17 drinking	15 good	3 intoxicated
46 beer	1 dangerous	1 drinkable	1 grain	14 intoxicating
9 beverage	1 dark	1 drug		14 intoxication
1 biting	1 death	31 drunk	1 hard	
5 bitter	1 degradation	18 drunkard	1 headache	1 jag
10 booze	1 despised	3 drunkards	1 Hennessy's	
1 Boston	1 destruction	26 drunkenness	1 hops	1 Kentucky
29 bottle	1 devil		1 horror	1 knock

1 law	1 odor	1 ruin	5 spirit	1 terrible
12 liquid	1 old	1 ruination	23 spirits	1 thirst
1 liquids		23 rum	38 stimulant	1 thirsty
70 liquor	1 pint	9 rye	4 stimulants	1 tipsy
	1 place		1 stimulating	1 today
2 malt	1 pleasant	15 saloon	1 stimulation	1 toper
2 man	4 poison	1 saloons	1 stomach	2 trouble
4 medicine	1 poor	1 Scotch	2 straight	
1 misery	1 poorhouse	1 seasickness	6 strong	1 unhealthy
1 money	1 powerful	2 sick	1 stupidity	1 unpleasantness
1 moonshine	2 prohibition	2 sickness	1 suffering	
	1 punch	2 smell		1 warm
3 narcotic		1 smuggle	1 taste	9 water
2 nice	1 rarely	1 sorrow	4 temperance	16 wine
1 none	2 red	4 sour	1 temptation	1 wrong

75. CHILD

5 adult	1 darling	1 hair	8 love	1 precocious
3 angel	2 daughter	2 happiness	2 loving	10 pretty
	1 dear	2 happy	4 lovely	1 pupil
7 babe	1 dearest	1 healthy	1 male	1 pure
193 baby	1 delight	1 helpless	1 mammal	1 purity
1 bad	1 disobedient	1 helplessness	1 maternity	1 rattle
8 beautiful	1 dog	6 home	1 me	1 religious
5 beauty	4 doll	2 hood	1 mite	5 school
8 being	4 dress	1 hospital	55 mother	1 screaming
2 birth	1 dresses	5 human	1 motherhood	1 senses
2 blessing		1 humanity		1 simple
2 body	1 Eleanor	1 ill	1 naive	1 simplicity
1 born	1 Elizabeth	1 infancy	1 naughty	1 sister
64 boy	1 embryonic	1 immature	1 necessary	52 small
3 boys	1 expectation	122 infant	1 nephew	1 smile
1 burden		1 injury	1 nice	2 son
	2 family	16 innocence	1 night-dress	1 spoiled
1 care	1 fat	1 innocent	1 noise	1 study
1 carriage	5 father	1 instinct	2 nuisance	6 sweet
1 charm	3 female	2 interesting		2 sweetness
1 childhood	1 frolicsome		1 obedient	1 table
1 childish	2 fun	1 joy	6 offspring	1 tender
1 Christ	1 fussy	2 juvenile		1 three
1 clothes	1 future		6 parent	1 toys
3 comfort		4 kid	1 parents	1 trouble
1 coming	45 girl	1 kindergarten	3 people	
1 companion	2 girls		18 person	3 weak
2 cradle	1 glass	2 labor	1 pet	18 woman
1 creep	7 good	2 lady	14 play	
1 crib	1 goose	2 large	3 playing	80 young
1 cries	1 Greta	1 like	3 playful	2 youngster
4 cry	1 growing	11 little	4 pleasure	29 youth
1 cross	1 growth	1 lonely	1 plump	1 youthful
1 cunning		1 lovable		
3 cute	1 habits			

76. BITTER

8 acid	5 beer	1 disappointment	1 grudge	1 limes
1 acrid	1 berry	2 dislike		1 liquor
1 agreeable	1 biting	10 distasteful	2 hatred	1 love
1 ale	1 boneset	1 dregs	2 herb	1 magen
4 almond	1 burdock	2 drink	5 herbs	1 man
3 almonds			1 hops	1 mandrake
4 aloe	1 candy	2 enemy	3 horrid	37 medicine
6 aloes	1 cascara		1 horseradish	1 Mirabar
1 altogether	1 chastisement	1 feelings		1 morphine
2 alum	1 chickory	1 flag	1 icy	
3 anger	1 chocolate	4 fruit	1 ill	3 nasty
3 apple	1 cider		1 irritating	1 nice
1 apples	6 cold	42 gall		1 none
1 apricot	1 cross	2 good	8 lemon	1 nux
1 astringent	1 cup	1 grape	1 lemonade	1 offensive
		3 grapefruit	1 lessons	1 olives
10 bad	1 deep	1 grass	1 life	3 orange
1 banana	10 disagreeable	2 grief		

1 peach	1 quince	1 spice	1 tears	1 unpleasantness
1 peel	23 quinine	3 strong	1 temper	1 unweetened
9 pepper		1 strychnia	3 thoroughwort	1 unwholesome
2 persimmon	1 rank	4 strychnine	1 thought	
3 pickle		1 suffering	1 tonic	1 vegetables
1 pickles	1 sadness	—305 sweet	2 tonics	17 vinegar
1 pleasant	2 salt	1 sweeter	1 trouble	
4 plums	2 salts		1 turnip	1 water
1 poison	3 sharp	8 tart		1 weather
3 pucker	8 sorrow	66 taste	3 ugly	1 wine
1 puckering	1 sound	3 tasteless	1 unhealthy	1 word
	—222 sour	1 tasting	1 unpalatable	2 words
1 quassia	2 sourness	1 tea	19 unpleasant	2 wormwood
				1 wrong

77. HAMMER

2 action	5 driving	1 knife	1 plumber	4 striking
1 annoyance	1 door	35 knock	51 pound	1 stroke
6 anvil		6 knocker	12 pounding	
1 article	1 easy	5 knocking	1 pounds	3 tack
1 awl	1 effort			11 tacks
11 axe		2 large	1 rap	1 Thor
	3 finger	1 lost	1 repairs	1 thread
3 bang	2 force		1 revolver	6 throw
1 beating		3 mallet	1 road	1 throwing
2 blacksmith	1 geology	1 mark	1 rod	1 thumb
6 blow		1 maul	1 round	1 thump
2 board	5 handle	1 metal		1 toe
1 bruiser	58 hard		9 saw	29 tongs
2 building	6 hatchet	—185 nail	1 scissors	69 tool
	2 head	98 nails	1 shoemaker	3 tools
13 carpenter	13 heavy	2 nailing	1 shop	1 turf
1 carpentering	21 hit	36 noise	10 sledge	
10 chisel	1 horseshoe	1 nut	2 small	1 use
1 claps	1 hurt	1 nuts	9 sound	5 useful
1 claw	1 hurts		1 spade	1 utensil
2 club		2 one	1 stay	
1 concussion	8 implement		20 steel	3 weapon
1 convenience	38 instrument	1 pain	1 stone	3 weight
	45 iron	2 picture	1 strength	6 wood
17 drive		1 pictures	28 strike	8 work
1 drives	2 J.			2 working

78. THIRSTY

1 all	1 desiring	1 glass	1 nauseated	1 suffering
2 always	1 dipper	1 good		
1 animal	1 disagreeable		1 oranges	1 terrible
3 appetite	2 discomfort	1 hard		1 throat
	2 dog	1 haste	2 pain	1 tongue
1 bar	206 drink	2 heat	3 parched	
4 beer	23 drinking	1 horse	2 parching	1 uncomfortable
1 beverage	8 drought	2 hot	1 people	2 unpleasant
1 bird	—218 dry	9 hunger	1 person	
1 boy	5 dryness	41 hungry		1 verv
1 brooks			12 quench	1 vichy
	1 emotion	1 labor	4 quenched	
1 cattle	1 empty	2 lack		2 walk
2 child	1 exhausted	1 lawn	1 refreshing	9 want
1 cold		7 lemonade		2 wanting
4 craving	1 famished	1 liquid	1 satiated	1 warm
1 cream	1 fatigue	4 longing	3 satisfied	—341 water
2 cup	6 feeling		1 sensation	1 wench
	1 fluid	1 man	2 soda	3 wet
2 desert	1 food	2 mouth	3 spring	2 work
4 desire	1 fountain		1 stream	

79. CITY

1 Albany	1 Creal	3 house	1 mill	1 sights
1 beautiful	1 Creal Springs	52 houses	1 mountain	1 sin
9 big	11 crowd		1 municipal	1 size
5 Boston	7 crowded	1 immense	1 municipality	1 slums
1 bridges	1 crowds	1 incorporated		1 small
3 Brooklyn	1 density	1 incorporation	1 nation	1 smoke
6 building	1 dirt	2 industry	99 New York	2 space
26 buildings	1 distance	1 inhabitant	12 noise	1 Springfield
1 bulk		12 inhabitants	6 noisy	26 state
1 Burlington	1 earth	1 inhabited		1 stores
1 business	1 excitement	1 joy	1 park	3 street
4 busy			1 pavement	11 streets
2 bustle	1 fine	2 land	48 people	1 tale
	1 fun	62 large	37 place	1 ten thousand
6 capital		1 largeness	1 pleasantness	2 theatre
3 cars	1 gaiety	2 life	2 populated	1 theatres
1 charming	1 good	7 live	19 population	2 towers
4 Chicago	1 government	1 loathing	6 Poughkeepsie	258 town
1 child	1 governor	2 location		1 towns
7 citizen	2 great	1 lots	2 republic	1 township
1 civilization	1 greatness		2 residence	1 traffic
1 Cleveland		1 machinery	1 resting	1 traveling
2 collection	3 habitation	1 majority	1 rich	1 tumult
5 community	1 heat	1 Manhattan	1 scene	2 turmoil
1 complexity	2 hill	2 manufacture	1 sea	
1 confusion	5 home	3 many	1 settlement	44 village
1 congregation	1 homes	2 men	1 shopping	1 wagons
2 corporation	1 hot	6 metropolis	1 shops	1 welcome
74 country				1 world

80. SQUARE

1 accurate	1 crackers	3 green	1 measurements	2 sharp
1 acre	3 crooked	1 grounds	1 metal	1 side
1 across	1 crowd		2 mile	6 sides
1 active	9 cube	1 hand	1 monument	1 sidewalk
1 airy	1 cubic	2 handkerchief		1 size
11 angle	1 cubical	1 Harlem	1 New York	1 sizing
6 angles	1 curse	2 Herald		6 small
4 angular	1 curve	1 heavy	2 object	1 smooth
1 arithmetic		3 honest	82 oblong	2 solid
1 association	1 deal	1 honesty	1 obtuse	1 space
	1 dealing	5 house	1 open	2 stand
1 bed	1 decoration	3 houses	5 oval	1 steel
1 best	2 desk			7 straight
1 big	1 Dewey	2 inch	5 paper	9 street
71 block	4 dice	1 inches	1 parallel	1 streets
4 board	1 die	1 instrument	1 parallelogram	1 sugar
4 book	2 door	1 iron	14 park	1 surface
36 box	1 Düsseldorf		1 pavements	1 surveyor
2 brick		1 just	2 people	
5 broad	1 earth	2 justice	2 perfect	47 table
2 building	1 ease	1 junction	1 picture	1 thoroughfare
1 business	6 equal	1 kindergarten	2 pillow	3 Times
	19 even	1 knob	4 place	13 tool
9 carpenter	1 evenness		1 plane	1 tree
1 carpet	1 exact	2 land	1 plot	4 trees
1 cars		5 large	1 proportion	11 triangle
2 center	3 fair	1 Lawrence	2 public	1 true
1 Chatham	4 field	2 length		
1 checkers	4 figure	10 level	1 quadrangle	1 uneven
22 circle	1 file	2 lines	15 rectangle	1 uniform
1 circular	4 flat	1 little	3 rectangular	4 Union
4 city	1 floor	1 rhomboid		2 upright
1 Common	2 foot	1 lot	5 right	
1 Commons	1 form		1 Rittenhouse	8 village
5 compass	10 four	12 Madison	1 road	1 walk
1 concert	1 frame	5 man	5 room	1 walks
1 Copley	1 furlong	1 mark	— 250 round	1 wall
7 corner		1 marks	9 rule	4 Washington
18 corners	5 garden	1 masonry	8 ruler	2 wide
2 cornered	10 geometry	2 mathematics		1 window
1 correct	1 Getty	1 meal	1 saddle	5 wood
1 correctness	1 goods	5 measure	1 seat	
1 cover	1 grass	2 measurement	6 shape	2 yard

81. BUTTER

2 bad	5 dish	2 goat	101 milk	1 smooth
2 bill	1 dripping	14 good	1 molasses	65 soft
2 biscuit		76 grease	1 mush	2 softness
206 bread	34 eat	6 greasy	1 nourishment	1 sour
1 breakfast	12 eatable	1 grocer	2 nut	1 spoon
1 butter	2 eatables	1 healthful		3 spread
1 butterine	6 eating		9 oil	1 square
	1 edible	1 indifference	3 oily	2 strong
41 cheese	2 egg	1 ingredients	5 oleomargarine	1 substance
4 churn	11 eggs			4 sugar
1 color	1 emollient	3 jam	1 peaches	1 supper
1 composition	1 excellent	2 jelly	3 plate	12 sweet
1 cooking		1 kerosene	1 pleasant	2 table
1 cottolene	1 farm	7 knife	1 plenty	1 tallow
1 country	1 farmer		1 pound	2 taste
1 cup	21 fat	15 lard	1 pure	2 tea
29 cow	1 fatty	1 luxury	2 rancid	1 thin
11 cows	1 fish			1 tub
34 cream	1 flour	1 meal	13 salt	1 use
	7 fly	2 meat	3 salty	3 vegetable
4 dairy	63 food	1 melt	1 salve	80 yellow
1 dairying	3 fresh	2 melting	1 smear	
2 diet	1 fudge			
2 dinner				

82. DOCTOR

1 administer	5 disease	5 ill	1 murder	1 quack
3 aid	1 diseases	21 illness		
1 ailment	1 Divinity	2 inquisitive	1 N.	6 relief
1 apparatus	1 doctress	2 intelligent	1 N.	1 relieved
2 attendant	1 dog	1 interne	2 necessity	1 remedy
	1 driving	1 invalid	1 need	
1 bad	1 Dr. P.		1 needed	1 S.
1 bag	2 druggist	1 K.	1 needful	3 satchel
2 heard		1 K.	1 nice	2 science
2 better	2 education	1 killer	41 nurse	1 scientist
3 bill		1 kind	1 nurses	52 sick
2 bills	2 fakir			104 sickness
1 bottle	3 false	1 labor	1 O.	3 smart
1 brains	2 father	1 laboratory	1 office	1 student
1 brother	3 friend	1 laborer	1 old	1 suffering
1 butcher		1 lamp	1 one	1 supervisor
	1 G.	36 lawyer	1 operation	5 surgeon
1 C.	1 G.	1 learned		1 surgical
1 C.	1 gentleman	1 life	1 P.	1 syringe
2 care	17 good		2 pain	
2 carriage	1 goodness	1 M.	1 papa	1 tend
1 case	1 great	1 McC.	23 patient	1 treatment
1 chief	2 grip	1 McM.	1 patients	3 trouble
1 clergyman		1 magistrate	1 people	1 trust
1 clever	5 healer	1 male	3 person	
1 college	2 healing	68 man	1 pharmacist	2 useful
1 convenient	18 health	1 mean	1 physical	1 useless
9 cure	3 help	19 medical	213 physician	
	1 helper	149 medicine	1 pills	1 W.
1 D.	1 helpful	1 medicines	2 practitioner	1 W.
1 D.	1 helpfulness	1 merchant	6 priest	1 W.
1 D.	1 home	7 minister	9 profession	1 well
1 death	8 hospital	1 mixer	3 professional	1 wise
6 dentist		1 money		2 woman
				1 work

83. LOUD

3 angry	3 disagreeable	2 laugh	1 power	2 sounds
1 audible	1 discontent	2 laughing		3 speak
	1 dislike	2 laughter	32 quiet	2 speech
1 band	3 drum	1 lofty	1 quietness	2 spoken
1 bawl		3 long		7 still
5 bell	3 ear	57 low	1 racket	1 stone
2 bells	12 easy		1 real	8 strong
2 birds	4 explosion	1 man	1 report	1 subway
38 boisterous		1 masculine	2 rough	1 sweet
1 boy	3 fast	1 megaphone	2 rude	
2 boys	1 forte	1 mellow		12 talk
1 bright		1 mild	1 S.	1 talking
	1 game	1 mouth	9 scream	9 talker
2 call	1 gong	7 music	2 sharp	9 thunder
1 called	1 graphophone		1 shock	1 tie
1 calliope	2 gun	205 noise	6 shout	1 tone
1 calm	1 guns	112 noisy	1 shouting	1 trolley
12 cannon			1 shriek	
1 check	2 hammer	1 objectionable	9 shrill	1 uncomfortable
1 child	2 hard	1 ocean	1 shrinking	5 unpleasant
1 children	3 harsh	1 organ	3 silent	
1 city	1 haughty	1 owl	1 sing	27 voice
1 clear	6 hear		1 singer	1 voices
2 course	1 heard	1 pain	1 singing	4 vulgar
2 color	4 heavy	1 painful	4 slow	
1 common	14 high	1 people	1 smart	2 whisper
1 confusion	1 hog	2 person	1 smooth	17 whistle
1 cornet	16 holler	1 phonograph	1 socks	1 wide
	4 horn	2 piano	165 soft	3 wind
1 deaf	1 impatient	1 piercing	1 softly	
1 deafening		1 pistol	2 song	3 yell
1 din	2 knock	1 pistols	25 sound	2 yelling

84. THIEF

1 absence	1 dishonor	1 laugh	1 pocketbook	—212 steal
1 abstractor	1 dislike	4 law	8 police	69 stealing
1 anger	1 distrustful	1 lawyer	12 policeman	8 steals
1 arrest	1 dirt	6 liar	1 poor	9 stole
	1 dog	1 lock	6 prison	9 stolen
14 bad	1 dumb	3 loss	1 prisons	2 stealer
1 badness		2 low	1 prisoner	1 stealth
1 bandit	1 enemy		2 punishment	2 stealthy
1 bank	1 evil	29 man	1 purse	
3 beggar		1 mask		5 take
1 being	2 fear	1 McClure's	1 ran	3 taking
1 betrayer	1 felon	4 mean	4 rascal	1 time
3 boy		1 meanness	1 reverses	2 tools
118 burglar	1 girl	1 men	1 revolver	1 tramp
2 burglary	1 glove	1 mercenary	8 rob	1 treasure
	2 gold	2 merchant	126 robber	1 troublesome
2 careful	1 good	2 minister	10 robbery	1 trust
2 catch		1 mischief	19 rogue	
4 caught	1 harsh	1 misdemeanor	1 roguish	3 ugly
1 caution	18 honest	1 mistake	1 run	1 undesirable
1 chief	4 honesty	16 money	2 running	1 unjust
1 clerk	4 house	5 murder		1 unreliable
1 clothing	1 household	3 murderer	1 scare	
4 court			1 schemer	1 vagrant
2 crime	1 ignorant	1 necessity	1 school	2 valuables
15 criminal	1 injustice	1 neighbor	4 scoundrel	2 vice
3 crook	1 interest	1 newspaper	1 shot	5 villain
1 cry	1 Irish	16 night	4 silver	1 virtue
2 culprit		1 none	1 silverware	
1 cute	11 jail	1 noted	1 sin	1 want
	7 jewelry		1 Sing Sing	3 watch
2 dangerous	3 jewels	1 object	1 sinner	1 waywardness
4 dark	1 judge		1 sly	4 wicked
1 deceit	1 jury	1 pencil	1 snake	3 wickedness
1 detective	2 justice	1 person	7 sneak	1 window
1 devil		2 pickpocket	3 sneaking	1 woman
11 dishonest	1 killed	1 play	1 sneaky	1 wretched
2 dishonesty	1 kleptomaniac	1 pocket	1 spoils	3 wrong

85. LION

4 Africa	5 cub	1 hearted	27 mouse	1 story
1 Androcles	2 cubs	1 holler	1 mule	30 strength
1 anger		1 horse		15 strong
2 angry	5 danger	1 howl	1 N.	1 Sultan
326 animal	6 dangerous	1 huge	1 noble	
3 animals	1 death	1 hungry	1 noise	4 tame
	13 den	3 hunter		1 tamer
17 bear	3 desert	4 hunting	1 panther	1 tail
67 beast	1 devours	1 hyena	2 park	1 teeth
1 beautiful	1 disturber		1 paw	1 terrible
1 beauty	1 dog	1 interested	1 picture	102 tiger
2 big			5 power	2 tigers
1 bird	1 eat	1 jealous	1 powerful	
1 bite	1 eats	5 jungle	1 prey	7 ugly
1 blood	3 elephant	1 jungles		
1 boisterous	1 enraged		1 rage	5 vicious
2 bold		16 king	1 raging	
1 Bostock's	3 fear		1 revenge	1 walks
4 brave	16 ferocious	1 L.	48 roar	2 wicked
1 bravery	1 ferocity	6 lamb	3 roars	12 wild
1 Bronx	36 fierce	3 large	6 roaring	1 wildness
	1 fierceness	10 lioness	8 Roosevelt	2 wilderness
14 cage	6 forest	1 lionized	1 rough	1 wilds
1 camel	1 fox	1 lookout		10 wolf
6 cat	1 fright		1 savage	2 woods
1 cave	1 frightened	1 majestic	1 sea	1 wool
1 Christian		3 majesty	1 shaggy	1 wrath
2 circus	1 giraffe	13 mane	1 sharp	
2 claws	2 great	5 menagerie	1 sheep	1 yellow
1 cow	1 growl	1 mice	1 small	
1 crouching		1 mighty	1 stealth	5 zoo
2 cruel	3 hair	1 monkey	1 stealthy	1 zoology

86. JOY

1 action	2 delighted	7 great	1 merriment	1 sensation
1 amuse	2 delightful	18 grief	1 merry	1 shouting
3 amusement	1 despair		7 mirth	2 show
1 anger		1 hands	1 money	1 sing
1 angry	1 ecstasy	215 happiness	1 motherhood	1 singing
1 anticipation	3 elated	71 happy	2 much	2 smile
1 arrival	1 emotion	1 harmony	5 music	1 smiling
4 automobile	1 engaged	1 health		3 song
	2 enjoyment	1 heard	1 news	135 sorrow
1 ball	3 excitement	3 heart	2 nice	1 sorry
1 bird	2 expression	2 heaven	1 noise	1 state
1 birth	1 extreme	1 holiday		1 suffering
1 birthday	1 exuberance	6 home	1 outing	1 summer
1 bitterness		4 hope		1 sunlight
1 bless	1 fair		1 pain	6 surprise
1 blessing	1 family	1 inexpressible	1 passing	4 sweet
10 bliss	1 feel		23 peace	1 sweetness
1 boy	5 feeling	1 joking	1 picnic	
1 bright	1 felt	1 jubilant	1 picnics	2 time
1 brightness	1 festivity		8 pleasant	1 triumph
1 buoyant	2 fine	1 lady	3 pleased	3 trouble
	1 food	7 laugh	121 pleasure	
1 cheer	1 forever	4 laughing	1 pride	1 unalloyed
2 cheerful	1 friends	15 laughter		1 unattainable
3 cheerfulness	1 fullness	1 leap	1 quality	2 unhappiness
2 child	6 fun	1 letters		1 unhappy
1 children		3 life	4 rapture	
2 Christmas	1 gaiety	2 light	2 rejoice	1 vacation
1 comes	1 gay	1 like	1 rejoicing	
11 comfort	1 game	2 line	2 relief	1 water
1 comfortable	1 gift	1 lonely	7 ride	1 wedding
1 company	2 girl	1 lots	2 riding	1 wetness
1 complete	1 girls	6 love	1 rider	1 wish
1 concert	27 glad	2 loving		1 wonderful
1 contentment	44 gladness	1 lovely	1 sad	2 work
	3 glee		13 sadness	1 wrath
3 dance	1 godliness	1 man	2 sailing	
5 dancing	7 good	2 marriage	1 Saturday	1 youth
6 delight	1 grand	2 meeting	1 seldom	

87. BED

1 animal	1 covering	2 house	17 pillow	3 sleepiness
1 asleep		2 house	7 pillows	7 sleepy
	1 desired	9 iron	1 pleasure	8 slumber
1 baby	1 dormitory	1 joy	3 post	7 sofa
3 bedding	1 down			31 soft
4 bedstead	1 dreamland	2 large	1 quilts	5 spread
4 blanket		8 lay		1 spring
3 blankets	1 ease	1 laziness	1 recline	1 springs
1 boat	1 easiness	21 lie	1 recuperation	1 square
1 bowl	2 easy	6 lounge	1 refreshing	1 stove
3 brass		2 low	9 repose	1 structure
2 bug	1 fatigue	8 lying	1 respite	
	3 feathers		132 rest	2 table
11 chair	1 flannels	1 make	5 resting	1 tick
2 clean	1 floor	1 marriage	1 restful	1 time
1 cleanliness	2 folding	21 mattress	1 robe	7 tired
12 clothes	1 frame		16 room	1 twilight
2 clothing	26 furniture	1 narrow		1 Vassar
35 comfort		1 negro	1 seat	
1 comforts	1 go	11 night	6 sheet	1 want
12 comfortable	7 good		7 sheets	1 warm
11 cot		1 object	1 shoes	1 weariness
26 couch	2 hammock		2 sick	2 white
1 counterpane	5 hard	1 pan	5 sickness	1 whiteness
4 cover	1 head	3 patient	- 345 sleep	1 wide
4 covers	2 home	1 peace	41 sleeping	4 wood

88. HEAVY

1 air	1 cloudy	1 heart	1 oppression	17 stone
1 animal	4 coal	2 hearted	1 oppressive	2 stones
1 anvil	1 coarse	1 heft		2 stout
1 article	1 coat	1 help	1 package	3 stove
1 automobile	1 comfort	2 horse	1 pail	1 strain
1 avoidupois	1 cumbersome	1 house	1 person	4 strength
			1 piano	3 strong
1 baby	1 dark	70 iron	2 ponderous	1 study
1 bad	1 difficult	2 irons	1 pound	1 suit
1 bat	1 dirt		1 pounds	
2 bed	1 disappointment	1 labor	2 pressure	5 table
3 big	1 discomfort	2 laden		3 thick
1 body	1 dope	18 large	1 quicksilver	1 things
3 books	1 drag	60 lead	2 quiet	1 thoughtful
1 boulders	1 drill	7 lift		21 tired
1 box	1 drowsiness	1 lifting	2 rock	2 tiresome
1 boxes	10 drowsy	- 273 light	1 rough	4 ton
1 boy	3 dull	1 lightness		1 tough
1 bread		57 load	2 safe	3 trunk
1 brick	1 effort	1 loadsome	1 sand	
1 building	3 elephant	1 loud	1 satchel	1 uncomfortable
1 bullet			1 scales	1 underwear
4 bundle	1 F.	1 machine	1 sharp	
12 burden	1 fall	4 man	1 ship	1 very
3 burdensome	1 feel	1 marble	1 short	1 weak
	1 firmness	1 mountain	1 sickness	3 weariness
	1 full	1 much	3 sleep	3 weary
1 cake		1 mud	1 sleeping	1 weather
1 cannon	3 gold	1 muscle	1 slothful	1 weigh
1 carpet	1 gorgeous	1 myself	1 slumber	1 weighing
2 carry	1 grieve		5 soft	177 weight
1 carrying	2 grip	1 no	1 soggy	1 weighted
1 cement			3 solid	22 weighty
1 chair	3 hammer	1 obliging	1 sound	4 wood
1 change	88 hard	1 opposing	1 steel	2 work
1 cloth	2 head			
1 clothes				

89. TOBACCO

1 amber	1 elevate	1 Indian	69 pipe	7 strong
1 anger	1 enjoyed	3 injurious	3 pipes	1 substance
10 bad	1 enjoyment	1 intoxicate	38 plant	1 suffocation
1 bite	1 execrable		1 plants	2 sugar
4 bitter	1 exhilaration	7 juice	3 pleasant	2 sweet
1 Bob	1 evil		2 pleasure	
1 breath		17 leaf	6 poison	1 tasty
7 brown	1 field	2 leaves	1 poor	1 tobacco
	1 fields	1 light	2 pouch	
28 chew	4 filth	1 liquor	1 plug	1 unclean
13 chewing	1 filthiness	1 lungs		2 unnecessary
19 cigar	1 filthy	2 luxury	1 refrain	2 unpleasant
17 cigars	1 food		1 ruin	1 unwholesome
12 cigarette		3 man		2 use
6 cigarettes	1 garden	1 men	1 scent	1 used
2 comfort	5 good		1 sensation	1 useful
1 curse	3 green	10 narcotic	1 sin	2 useless
	1 grower	2 nasty	5 smell	
	1 growing	1 nausea	—387 smoke	3 vegetable
1 death		18 nicotine	98 smoking	1 vice
1 decay	12 habit	1 none	1 smoker	2 Virginia
1 deviltry	1 habits	1 not	15 snuff	
6 dirty	1 hard	1 nuisance	1 solace	44 weed
3 disagreeable	3 herb		4 spit	1 weeds
1 disgust	1 herbs	1 obnoxious	1 stalk	1 whiff
1 disgusting	1 horrid	3 odor	1 stars	1 whiskey
3 drug	1 horrors	1 odorous	2 stimulant	1 wickedness
1 Durham		4 opium	1 stimulants	1 yellow

90. BABY

1 animal	2 cross	1 happiness	1 milk	4 sleep
5 beautiful	3 cries	1 happy	41 mother	1 slight
2 beauty	37 cry	1 harmless		42 small
1 beginning	20 crying	1 helpless	1 name	1 smallest
3 being	3 cunning	4 helplessness	5 nice	1 smiling
1 bib	8 cute	4 home	6 noise	3 soft
1 big	1 cuteness	3 human	1 noisy	2 softness
1 birth			3 nuisance	2 squalls
1 blessing	4 darling	168 infant	7 nurse	1 squeal
1 blue	1 daughter	1 infinitesimal		1 squealing
2 body	1 delicate	10 innocence	2 offspring	1 stout
1 bonnet	1 dirty	4 innocent		1 sunshine
2 born	1 doll		1 pacifier	23 sweet
6 bottle	6 dress	7 joy	1 paper	7 sweetness
32 boy		1 jump	2 person	1 syrup
1 bread	1 embryonic		2 pink	1 talk
1 buggy	1 eyes	4 kid	1 play	1 talks
1 bundle			1 pleasant	1 tiny
	1 fair	1 lamb	3 pleasure	5 trouble
1 cap	2 family	1 laugh	1 population	1 two
3 care	5 fat	2 laughing	1 powder	
28 carriage	1 father	1 Lawrence	7 pretty	1 wagon
2 cart	1 feet	2 life		1 walking
280 child	1 female	1 light	4 rattle	1 weak
3 children	1 flesh	12 little	1 rocker	1 weakness
1 childhood	1 food	1 Lorenzo	1 round	1 wee
1 chubby	1 friend	9 love	2 Ruth	1 white
4 clothes	1 future	1 loveliness		2 wife
3 comfort		1 lovely	1 sex	5 woman
22 cradle	26 girl		1 sick	
1 creation	1 good	2 mama	1 sickness	2 yell
1 crib	1 goodness	4 man	1 simple	12 young
1 crooning	1 growth	1 mankind	1 simplicity	1 youngster
		1 Mary	2 sister	4 youth

91. MOON

1 astronomer	7 body	1 circular	1 delicate	1 fair
1 astronomy	52 bright	3 clear	1 delightful	2 fire
1 atmosphere	7 brightness	2 clouds	1 dim	1 firmament
	1 brilliant	4 cold	4 distance	10 full
2 ball		1 coldness	1 dreaming	
2 beam	1 calm	8 crescent	5 earth	1 girl
1 beams	1 change	1 cute	3 eclipse	1 globe
7 beautiful	4 cheese		1 equator	1 glowing
6 beauty	1 circle	2 dark	6 evening	1 grand

1 great	3 lunar	23 planet	26 shine	1 steamer
1 guard		1 planets	4 shines	1 stone
3 half	8 man	1 pleasant	12 shining	2 struck
2 heaven	3 moonlight		12 shiny	120 sun
3 heavens	1 mountain	1 quiet	4 silver	1 sweet
4 high	1 mystery		6 silvery	
		1 reflection	1 size	1 turkey
1 illumination	1 necessary	1 rise	78 sky	
1 lake	8 new	1 rises	1 solar	1 valuable
1 lady	68 night	1 rising	1 sound	
1 large	1 object	33 round	1 splendid	1 wan
231 light	1 ocean	4 satellite	2 spoon	2 water
3 love	1 one	2 sea	1 spooning	3 white
1 loveliness	1 orbit	1 sec	32 star	1 wish
2 lovely		1 seeing	93 stars	
	2 pale	1 sentimental	1 starlight	11 yellow

92. SCISSORS

1 apart	3 dressmaking	1 instruments	1 nippers	1 skirt
4 article	5 dull	68 knife	6 paper	1 spool
		6 knives	1 point	23 steel
2 barber	1 edge		1 pointed	1 string
1 blade	1 fate	1 lever	1 razor	2 tailor
1 blades	1 firecrackers	1 linen	1 ruching	8 thimble
1 blunt	1 flowers	1 lost		4 thread
			1 Sarah	1 tongs
35 cloth	2 garments	2 machine	1 screw	10 tool
1 clothing	1 glistening	1 material	1 severing	1 tools
1 cord	5 goods	1 metal	2 sew	1 trousers
1 crooked	1 grating	1 millinery	10 sewing	1 useful
2 crossed	7 grind	1 mother	190 sharp	1 usefulness
247 cut			5 sharpness	1 utensil
114 cutting	1 handle	1 nails	1 sharpen	
1 cutlery	1 handy	4 needle	40 shears	1 weapon
		4 needles	2 shut	1 woman
1 dress	6 implement	1 nickle	1 silver	2 work
2 dressmaker	88 instrument			

93. QUIET

1 action	3 demure	2 life	3 pleasure	3 solemn
2 alone	1 disposition	1 like		2 solitude
1 always	1 docile	1 loneliness	1 quick	3 soothing
1 asleep	1 dreary	3 lonely	2 quite	4 sound
	1 dull	2 lonesome		2 soundless
2 baby	1 dumb	1 looks	1 rabbits	1 speechless
1 beautiful		1 lovely	1 refined	1 state
1 beauty	8 ease	48 loud	1 relief	2 steady
1 bed	1 easiness	1 low	6 repose	136 still
2 behave	49 easy	1 man	1 reserved	16 stillness
3 boisterous	5 evening	1 melancholy	68 rest	2 study
1 bore		1 mind	4 resting	1 stupid
1 boy	1 family	1 Miss K.	19 restful	1 subdued
1 breeze	1 feeling	1 moon	2 restless	1 summer
1 brook		1 mountains	6 room	1 Sunday
1 butterfly	1 genteel	1 music	1 rough	2 sweet
	3 gentle	1 myself		
20 calm	1 gentleman		1 sad	2 talk
1 cattle	2 girl		1 sea	1 time
6 child	7 good	1 nature	1 serene	1 times
1 children	1 green	2 nice	1 sheep	1 timid
4 church		88 night	1 sickness	1 tomb
1 color	1 happy	50 noise	13 silence	1 tranquil
2 comfort	2 harmless	16 noiseless	15 silent	1 tree
1 comfortable	1 harsh	1 noisiness	24 sleep	1 twilight
1 composed	1 heaven	113 noisy	8 sleeping	
2 contented	6 home	1 nook	1 sleepy	1 village
21 country	1 hour		8 slow	1 violent
1 Oreal	8 house	1 park	1 slowness	1 voice
1 cricket	2 hospital	26 peace	1 slumber	
3 cross	1 humble	2 peaceable	1 slumbers	1 walk
		52 peaceful	1 smart	1 water
3 dark	1 joy	4 peacefulness	1 smooth	1 well
1 darkness		2 people	1 sober	1 Wilton
3 day	1 landscape	1 person	10 soft	1 wish
2 death	1 laughing	4 place	1 softly	1 wood
1 degree	1 library	4 pleasant	1 softness	10 woods

94. GREEN

8 apple	1 definite	1 grew	1 ocean	1 sky
2 beautiful	6 dress	1 grief	1 olive	1 slow
1 bird	2 earth	1 ground	2 orange	1 small
13 black	3 envy	1 hat	3 paint	1 soft
1 bloomy	1 Erin	1 hill	2 paper	2 sour
2 blotter	4 eyes	2 horn	1 peaceful	1 spinach
46 blue	1 farmer	1 horrid	2 peas	9 spring
1 book	1 favorite	1 hue	11 pink	1 stain
5 bright	12 field		6 plant	1 summer
8 brown	10 fields	6 Ireland	1 plants	1 tea
1 butterfly	3 flag	14 Irish	2 pleasant	10 tree
1 cabbage	4 flower	1 jealousy	1 pleasing	29 trees
1 calm	2 flowers		4 pretty	1 unripe
1 carpet	2 foliage	1 landscape	6 purple	1 vegetable
1 cheese	1 food	1 laurel	2 quiet	1 vegetables
3 cloth	1 foolishness	5 lawn	42 red	3 verdant
200 color	1 forest	8 leaf	6 restful	1 verdure
1 colors	3 fresh	18 leaves	2 ribbon	
1 comfort	1 fruit	4 light	2 ripe	1 warning
1 corn	1 gay		2 sea	1 wearing
1 country	1 glasses	1 meadow	4 shade	31 white
1 covetous	1 gold	1 meadows	2 shamrock	1 wood
2 cucumber	1 grand	2 mountain	1 shutters	2 woods
1 curtain	1 grapes		1 sight	
8 dark	284 grass	1 name	1 silk	54 yellow
1 Dartmouth	5 gray	4 nature		1 young

95. SALT

1 acrid	1 dish	1 Lake	2 potato	18 sour
3 air	1 drink	1 life	4 potatoes	5 spice
1 apple	2 dry	1 lot	1 powder	1 spill
2 apples			1 preparation	1 stickiness
1 article	5 earth	4 mackerel	2 preservation	88 sugar
	17 eat	1 marsh	1 preservatives	1 sustenance
1 barrel	7 eatable	18 meat	1 preserving	27 sweet
1 barren	8 eating	1 meats	1 quotation	1 Syracuse
1 bath	2 eggs	1 medicinal		
1 beef	1 epileptics	1 melt	1 refreshing	14 table
40 bitter	1 finish	2 mine	4 relish	2 tart
1 bowl	4 fish	3 mines	7 rock	87 taste
1 box	21 flavor	37 mineral	1 rocks	1 tasting
2 bread	3 flavoring	1 mustard	1 saline	2 tasteful
2 brine	46 food	1 NaCl	1 saltpetre	6 tasty
1 bromide	1 France	5 necessary	3 salty	1 tasteless
7 butter	11 fresh	3 necessity	1 sandwiches	1 temper
		1 needed	1 Saratoga	4 thirst
2 celery	1 glass	1 needful	1 saving	2 thirsty
9 cellar	9 good	1 nice	10 savor	1 trees
2 chemical			1 savory	7 use
1 codfish	1 halite	38 ocean	18 sea	2 useful
2 condiment	1 ham		12 season	1 uses
4 cook	4 hard	1 pantry	31 seasoning	1 using
2 cooking	1 horrid	1 paper	2 shake	5 vegetable
1 cows		1 pasture	4 shaker	1 vegetables
1 cream	1 ice-cream	142 pepper	8 sharp	1 victuals
	1 ingredient	1 petre	1 sheep	1 vinegar
1 deposit		1 physis	1 smart	
1 digestible	1 Kenilworth	1 pickles	1 snapping	34 water
3 dinner	1 kitchen	5 pork	1 sodium	2 wet
1 dirt		1 potassium	2 soup	36 white
1 disagreeable				

96. STREET

1 air	3 boulevard	1 byway	1 confusion	1 Devon
18 alley	1 Bowery		1 congestion	1 direct
6 asphalt	2 boy	10 car	2 corner	1 directions
1 automobiles	1 brick	8 cars	1 country	4 dirt
63 avenue	2 broad	1 carriage	2 crooked	5 dirty
1 avenues	6 Broadway	82 city	1 cross	1 distance
	1 Brooklyn	1 Clarkson	3 crowd	1 drive
1 better	1 building	7 clean	1 crowded	1 driving
1 bitter	1 business	1 cleaner		2 driveway
12 block	4 busy	1 colors	1 dark	1 dry

4 dust
5 dusty
1 dwellings
1 earth
1 Eighty-sixth
1 Eleventh
1 Elm
1 even
1 fertile
1 Fifteenth
1 fine
2 flags
1 Forty-third
1 garden
1 going
1 gravel
2 gutter
1 hard
1 heat
1 Hester
7 highway
1 home

2 horses
1 hot
11 house
21 houses
1 hustle
3 land
21 lane
1 large
1 length
1 level
1 light
2 live
2 location
1 lonely
29 long
5 Main
1 Market
1 Maxfield
1 motion
1 mud
1 musician
2 name
21 narrow
8 New York

1 nice
8 noise
5 noisy
12 number
1 numbers
1 One-fifteenth
1 One-sixteenth
1 opening
11 passage
1 passageway
2 pasway
12 path
2 pathway
1 pave
13 paved
25 pavement
1 paving
1 pebble
1 Pecan
22 people
16 place
2 pleasant
1 pleasure
2 pretty

1 racket
1 residence
91 road
4 roads
2 roadway
1 see
1 shopping
3 short
26 sidewalk
2 sidewalks
1 Sixty-seventh
2 Sixty-third
2 smooth
1 space
4 square
8 stone
8 stones
17 straight
1 sun
1 sweep
1 tenements
1 terrace
23 thoroughfare

26 town
1 tracks
7 traffic
3 travel
1 tree
1 trees
2 trolley
1 turnmoll
1 vehicles
9 village
3 wagon
2 wagons
78 walk
23 walking
2 walks
1 Wall
1 Washington
14 way
1 wet
1 white
35 wide
1 width
1 Woodhull

97. KING

1 Albert
1 all
3 Alphonso
1 antiquity
1 Arthur
4 authority
1 bad
1 boss
1 card
1 cards
2 chess
1 chief
3 command
1 commanding
9 commander
2 conqueror
13 country
1 court
1 courtier
63 crown
2 crowned
1 daughter
1 diamonds
1 dignity
1 dislike

1 dog
1 duke
30 Edward
11 emperor
3 empire
20 England
1 ermine
1 family
1 farce
1 first
1 fool
1 foreign
1 friend
1 garment
2 George
1 glory
1 good
1 govern
4 government
6 governor
2 great
1 greatness
1 Hamlet
1 happy

8 head
1 helmet
2 Henry
2 high
1 Holland
1 honorable
1 horrible
1 imperial
1 inheritance
1 Italy
1 John
1 judgment
2 Kaiser
1 king
5 kingdom
1 large
1 law
2 leader
1 lion
1 lord
1 Louis XVI.
1 loyal
1 majestic

8 majesty
2 male
43 man
3 master
1 mean
1 Midas
49 monarch
4 monarchy
1 nation
1 nobility
3 noble
2 nobleman
1 none
1 officer
1 old
2 palace
6 person
1 picture
2 pompous
18 power
4 powerful
4 president
1 princess
1 Prussia

354 queen
1 regal
1 regent
8 reign
1 rich
1 Richard
2 royal
5 royalty
10 rule
4 rules
162 ruler
1 Saxony
2 sceptre
1 slave
1 somebody
8 sovereign
1 Spain
1 stories
2 subject
1 supreme
21 throne
1 title
1 town
1 tyrant

98. CHEESE

2 American
1 bacteria
2 bad
2 beer
1 biscuit
6 bitter
2 box
56 bread
1 brick
186 butter
2 buttermilk
8 cake
2 Camembert
1 casein
1 chalk
1 cheesecloth
1 churn
4 cloth
1 cold
4 color

1 corn
9 cow
3 cows
1 cracker
30 crackers
30 cream
1 creamery
1 crust
9 curd
3 curds
2 cut
1 cutter
4 dairy
2 delicatessen
1 derby
2 diet
1 digestible
1 digestion
2 dinner
1 dish
4 dislike

1 Dutch
1 eagle
67 eat
29 eating
1 eaten
19 eatable
3 eatables
1 edible
2 eggs
1 factory
2 fat
1 feast
1 fine
1 fondness
91 food
2 fresh
1 fromage de Brie
15 good

5 green
1 grocer
1 grocery
1 ham
2 hard
1 head
1 heap
2 hole
2 holes
2 holey
1 hoops
1 hunger
1 hungry
1 indigestion
1 jam
1 kind
4 knife
13 Limburger

1 lump
2 lunch
1 macaroni
1 maggot
2 maggots
1 meat
25 mice
1 microbes
1 mild
106 milk
1 milky
1 mixture
2 moon
1 mould
1 mouldy
13 mouse
2 mustard
1 nice
1 nourishment
1 nutrition

9 odor	4 rarebit	1 salt	2 solid	1 tasty
1 odorous	8 rat	8 sandwich	5 sour	1 thin
	7 rats	2 sandwiches	1 strengthening	
1 pickles	1 red	1 sauce	12 strong	5 vegetable
6 pie	1 resentment	1 scent	1 sugar	1 vegetables
1 plain	1 rich	2 Switzer	5 supper	
1 plate	4 Roquefort	3 sharp	2 sweet	1 wafers
1 poor	1 rough	1 skippers	16 Swiss	3 white
1 poultry	2 round	33 smell	1 Switzerland	1 worms
1 price		1 smells		
2 product	1 sage	7 soft	8 taste	32 yellow

99. BLOSSOM

50 apple	1 clover	39 fruit	2 odor	1 seeds
4 apples	5 color		2 orange	1 shrubberies
1 art	1 colors	2 garden	2 orchard	1 small
	1 country	1 gin		2 smell
10 beautiful		1 girl	1 pansies	1 soft
9 beauty	1 dainty	1 green	1 pansy	23 spring
1 beginning	2 daisy	2 grow	1 peacefulness	1 sprout
1 berries	1 delicate	2 growth	4 peach	1 stem
28 bloom			1 petal	4 summer
7 blooming	1 eat	1 handsome	1 petals	1 sun
1 blow	2 fair	1 happiness	1 picking	15 sweet
1 book	1 falling	1 hepatica	7 pink	1 T.
4 bright	1 falls		13 plant	40 tree
23 bud	3 field	3 leaf	1 pleasure	17 trees
3 buds	1 fields	1 leaves	1 plum	
1 bursting	467 flower	2 lilacs	1 pour	1 vine
1 bush	73 flowers	1 lily	15 pretty	3 violet
2 bushes	1 foliage			
1 buttercups	2 forth	1 magnificent	3 red	1 weeds
	5 cherries	2 May	17 rose	8 white
4 cherry	4 fragrant	1 mimosa	4 roses	
1 clematis	1 frail	1 nice	1 scent	2 yellow
				1 youth

100. AFRAID

1 accidents	5 cowardice	2 ghosts	4 nervousness	1 soldier
1 action	3 cowardly	1 girl	3 never	1 somebody
2 alarm	1 crowd	4 go	12 night	1 sore
2 always	1 crying	1 goblins	3 no	2 sorrow
3 anger		1 God	1 nobody	1 sorry
2 angry	15 danger	1 guilty	2 noise	1 spirit
2 animal	2 dangerous		1 noisy	1 spiritual
2 animals	1 dare	1 happy	1 not	1 startled
1 anxiety	114 dark	2 harm	5 nothing	1 startling
2 automobile	16 darkness	1 heart		1 stav
1 awful	2 death	1 heroism	1 obsession	1 stillness
	1 deep	1 hide	1 opposition	1 strong
1 backwardness	1 depressed	1 home		1 suddenness
2 bad	1 desire	1 hope	1 palpitation	1 suffering
2 bashful	1 dislike	1 horse	1 patient	1 sure
1 battle	1 do	1 hurt	1 patients	
1 bears	1 dog		1 plucky	1 tempted
1 blow	1 dogs	1 insect	1 police	1 terrified
2 bold	1 don't	1 joy		9 terror
1 boy	1 doubt	1 joyful	1 quiet	3 thief
18 brave	7 dread		1 rat	1 thought
1 bravery	1 dreading	1 licked	1 rats	1 threaten
1 brother	1 dreadful	1 lightning	1 retreat	1 thunder
3 burglar	1 dream	3 lion	1 riot	55 timid
2 burglars		1 loneliness	2 robbers	2 timidity
	2 emotion	3 lonely	1 rocks	1 timorous
1 careful	2 faith	5 lonesome	4 run	1 to-night
2 cat	197 fear	1 loss	1 running	2 tremble
1 cheerfulness	8 fearful			1 trouble
8 child	8 fearless	3 man	1 scare	1 trust
1 children	2 feeling	1 manner	106 scared	
1 cold	1 fierce	1 memory	1 scary	1 unable
1 comfort	1 forward	1 mild	1 scream	1 uncertain
1 comforted	9 fright	1 Miss K.	1 sensitive	5 uneasy
1 company	2 frightened	1 mice	1 shiver	1 unhappiness
1 confidence	48 frightened	2 mouse	2 shrinking	1 unknown
1 conscience	1 frightful		1 shudder	1 unprotected
11 courage	1 frog	1 need	2 shy	1 woman
5 courageous		2 nerve	1 sickness	1 women
1 cow	1 gallant	1 nerves	1 sleep	1 worried
1 cows	4 ghost	55 nervous		3 worry
53 coward				

APPENDIX TO THE FREQUENCY TABLES

General Rules.

1. Any word combination which is to be found in the frequency tables, but only in the reverse order from that in which it occurs in a test record under consideration, is to be classed as a normal reaction.

2. Any reaction word which is a synonym or an antonym of the corresponding stimulus word is to be classed as normal.

1. TABLE

Any food or meal.

Any room or apartment.

Any article of table linen, china, silver, or furnishings.

Word designating any special variety of tables.

Any word pertaining to appetite.

2. DARK

Any source of illumination.

Any enclosure from which light is wholly or in a large measure excluded.

Word referring to physiological pigmentation of tissues exposed to view.

Any division of the diurnal cycle.

Any color or coloring material.

Anything which obscures light.

3. MUSIC

Any musical instrument.

Name of any composer or musician.

Special or general name of any musical composition.

Term designating rhythm, tempo, loudness, or pitch.

Name of any dance.

Term expressing subjective effect of music.

4. SICKNESS

Term designating any disease, symptom, injury, or physiological function.

Any cause of disease.

Any means or measure of treatment of disease.

Any anatomical organ or region.

Word denoting mode of termination, results, consequences, or indirect effects of disease.

Any term of prognostic import.

Common or proper name of any person.

5. MAN

Word denoting or implying age of a person.

Any of the well-known male sexual characteristics.

Occupation or profession more or less peculiarly masculine.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

The proper name of any male person.

Any article of male apparel.

6. DEEP

Any vessel or container.

Any natural or artificial body of water.

Any depression of surface.

Any object naturally situated or often artificially placed at a comparatively great distance below the surface.

Any act of progress from surface to depth.

7. SOFT

Any article of food.

Any fabric.

8. EATING

Any article of table linen, china, or silver.

Any organ of digestion; any function of nutrition.

Any article of food; any meal.

Any private or public eating place.

Word denoting taste.

9. MOUNTAIN

Name of any mountain, mountain range, or mountainous country.

Word pertaining to shape, geological composition, fauna, or flora of mountains or mountainous regions.

Any term of physical geography.

10. HOUSE

Any place of house location.

Any part of a house.

Any material used in the construction of a house.

Any part of the process of construction of a house.

Laborer or mechanic having to do with the construction of a house.

Any commercial term pertaining to ownership, taxes, mortgages, sale, renting, or occupancy of a house.

Any article of furniture.

11. BLACK

Any object or substance that is always or often black or dark in color.

Any color.

Word denoting limitation or obscuration of light.

Any word clearly related to the word Black used as a proper name.

12. MUTTON

Any article of food; any meal.

Any animal, or class or group of animals, whose meat is used for human consumption as food.

Any article of table linen, china, silver; any cooking utensil.

Word designating any person engaged in the preparation of meats for consumption.

Word denoting any process employed in the preparation of meats for consumption.

13. COMFORT

Any agreeable or disagreeable subjective state.

Any object, act, or condition that contributes to comfort or produces discomfort.

14. HAND

Any simple function of the hand; work requiring special manipulation.

Word denoting skill or any degree of skill.

Any part or any tissue of the body.

15. SHORT

Any word involving the concept of duration.

Common or proper name of any person.

Any word denoting shape, relative or absolute dimension, or distance.

Any object in which characteristically one dimension exceeds any other.

16. FRUIT

Any article of food; any meal.

Any process employed in the cultivation of fruits or in their preparation for consumption.

Word designating any person engaged in the cultivation of fruits or in their preparation for consumption.

Any article of table linen, china, or silver.

17. BUTTERFLY

Any bird, worm, or insect.

Any flower.

Any color.

18. SMOOTH

Any object possessing a smooth surface as a characteristic feature.

Any fabric.

19. COMMAND

Word denoting any means of influence of one mind upon another intended to produce acquiescence.

Word denoting or implying acquiescence or lack of it.

Term applied to any commanding officer or to any person in authority.

20. CHAIR

Any article of furniture.

Any room or apartment.

21. SWEET

Any substance having a sweet taste.

Common or proper name of a child or woman.

22. WHISTLE

Any instrument or any animal producing a shrill musical sound.

23. WOMAN

Word denoting or implying age of a person.

Any of the well-known female sexual characteristics.

Occupation or profession more or less peculiarly feminine.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

Name of any female person.

Any article of female apparel.

24. COLD

Name of any location characterized by low temperature.
Any illness or symptom which may be caused by exposure to cold.
Any division of the annual cycle.
Any food that is always or often served cold.
Any means or measure of protection against cold.
Any state of the natural elements causing a sensation of cold.
Word denoting subjective characterization of or reaction to cold.

25. SLOW

Any means or manner of locomotion.
Any word involving the concept of rate of progress with reference either to time or to intensity of action.
Common or proper name of any person.

26. WISH

Word implying fulfillment of a wish either by achievement or through acquiescence.
Word implying non-fulfillment of a wish.
Word denoting any state of longing or anticipation.
Word denoting any state free from longing or anticipation.
Word denoting a prayer or request.
Word denoting a state of happiness.

27. RIVER

Any body of water.
Any part of a river.
Any plant or animal living in rivers.
Any term of physical geography.
Any vessel or contrivance for navigation.

28. WHITE

Any object or substance that is always or often white or very light in color.
Any color.
Any word clearly related to the word White used as a proper name.

29. BEAUTIFUL

Any word denoting aesthetic pleasure.
Name or any female person.
Any product of the fine arts or of decorative handicraft.
Any decorative plant or flower.
Any article of attire.
Natural scenery.
Any division of the diurnal cycle.

30. WINDOW

Any word pertaining to illumination.

Word pertaining to movements of air.

Any attachment to a window for the control of transmission of light or air.

Any building or apartment.

31. ROUGH

Any object or substance which is characteristically rough to the touch.

Word denoting or implying irregularity of surface.

Any skin lesion which may impart to the skin the quality of roughness.

Any word implying carelessness, lack of consideration, or crudeness; any word used to designate action or conduct which may be characterized as careless, inconsiderate, or crude.

32. CITIZEN

Any word pertaining to political organization, or to factors either favorable or unfavorable to it.

Any term or proper name of political geography.

Common or proper name of any male person.

33. FOOT

Any means or manner of locomotion involving the use of the feet.

Any part or any tissue of the animal body.

Any article of foot-wear.

Any way constructed or used for walking.

Any unit of linear measure.

34. SPIDER

Word employed to designate subjective characterization of or reaction to an object of dislike.

Any insect.

Word pertaining to the characteristic habits of spiders, with reference either to location and construction of nest, or to manner of catching prey.

35. NEEDLE

Any material used in making clothes.

Any special sewing operation; any occupation in which sewing constitutes part of the work.

Any special kind of needles.

Any instrument which is used in connection with a needle in any operation, or of which a needle forms a part.

36. RED

Word which may be used to express subjective characterization of the red color.

Any object or substance which is always or often red in color.

Anything which is by convention or common usage connected with the red color.

Any organ, tissue, or lesion, exposed to view, which may have a red color imparted to it by the blood or by physiological pigment.

Any color or coloring material.

Any word implying light through incandescence.

37. SLEEP

Word denoting somnolence or a state of lowered consciousness; anything which is a cause of somnolence or of lowered consciousness; anything which induces a desire to sleep.

Word denoting a state of active consciousness or a transition from lowered to more active consciousness.

Any division of the diurnal cycle.

Any word more or less commonly used to characterize sleep in any way.

Any article of bedding, bed-linen, or night-clothes.

Any article of furniture used for sitting or lying.

38. ANGER

Any affective state; any common demonstration of emotion.

Any common cause or provocation of anger.

Action or conduct caused by anger; word used to characterize such action or conduct.

39. CARPET

Any material of which carpets are made.

Any article of house furniture, hangings, or decorations.

Word denoting home, house, or any part of a house.

Word pertaining to the manufacture or care of carpets, or denoting a person engaged in the manufacture, sale, or care of carpets.

Any country especially noted for the manufacture of carpets or rugs.

Any color.

40. GIRL

Word denoting or implying age of a person.

Any of the well-known female sexual characteristics.

Occupation or profession more or less peculiarly feminine.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

Name of any female person.

Any part of a person's body.

Any article of female apparel.

41. HIGH

Any word denoting or implying skill, training, achievement, or position.
Any word denoting or implying valuation.
Any architectural structure.
Any object of which the vertical dimension characteristically exceeds any other.
Any act of progress from a lower to a higher level.
Name of any mountain or mountain range.
Anything characteristically situated at a high level.
Anything characteristically variable in height.

42. WORKING

Any occupation, profession, art, or labor.
Direct results or consequences of work.
Any place of employment.
Rest, recreation, inaction, or disinclination to work.
Word denoting energy, material, capital, equipment.

43. SOUR

Any substance or object which is always or often sour in taste.
Any word denoting a taste or flavor quality.

44. EARTH

Any substance which enters into the composition of soil.
Word pertaining to the utilization or cultivation of natural resources; any product of agriculture.
Any term of physical geography, geology, mineralogy, meteorology, or astronomy.

45. TROUBLE

Any affective state.
Any general cause of active emotional states.
Any common manifestation of emotion.
Word denoting or implying defeat.
Word denoting or implying caution or lack of it.
Any task.

46. SOLDIER

Word pertaining to military organization.
Word pertaining to any military operation.
Word pertaining to military discipline or to military decoration.
Any article of military or naval equipment or attire.
Common or proper name of any male person.
Name of any country.
Word pertaining to political organization.

47. CABBAGE

Any article of food; any meal.

Any article of table linen, china, silver; any cooking utensil.

Any process of cooking.

Word used to designate any person engaged in the cultivation of cabbages or in their preparation for consumption.

48. HARD

Any solid article of food.

Word denoting or implying impact.

Any task or labor.

Any substance which is hard or unyielding.

Any agency or process by which a substance is solidified or hardened.

Any article of furniture used for sitting or lying.

Any trait of disposition characterized by lack of readiness to yield or lack of consideration for others.

49. EAGLE

Any bird.

Any piece of currency.

Anything in connection with which the word eagle is used in a symbolic sense.

50. STOMACH

Any anatomical organ or region.

Any article of food; any meal.

Word pertaining to ingestion and assimilation of food.

Term denoting health or disease; any medicament.

51. STEM

Any object which has a stem.

Any part of a plant.

Any object which is long, slender, and more or less rigid.

52. LAMP

Any means or source of illumination.

Word denoting or implying illumination.

53. DREAM

Any product of imagination.

Any psychical phenomenon; any part of the psychical organ.

Word denoting or implying unreality or uselessness.

Word denoting or implying mystery or occultism.

Any division of the diurnal cycle.

Any article of bedding, bed-linen or night-clothes.

Any article of furniture used for sitting or lying.

Any narcotic substance.

54. YELLOW

Word which may be used to denote subjective characterization of the yellow color.

Any object or substance which is always or often yellow in color.

Any color or coloring material.

55. BREAD

Any article of food; any meal.

Any article of table linen, china, or silver; any cooking utensil.

Any private or public eating place.

Word pertaining to ingestion and assimilation of food.

Any ceremony in connection with which bread is used.

56. JUSTICE

Any word implying crime or tendency to crime, legal trial, retribution or lack of it, or repentance.

Any officer of the law.

Word pertaining to judiciary organization.

Word denoting any kind of ethical relationship.

Any deity.

The name of any justice or judge.

Any function of a judicial authority.

Any word denoting or implying equality.

57. BOY

Word denoting or implying age of a person.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

Common or proper name of any male person.

Any part of a person's body.

Any article of male apparel.

Any common boys' toy or game.

Word pertaining to educational organization.

58. LIGHT

Any source, apparatus, or means of illumination.

Any color or coloring material.

Word implying light through incandescence.

Any term of optics; any optical phenomenon.

Any object or substance which is characteristically light in weight.

59. HEALTH

Any emotion; any common manifestation of emotion.

Any disease or symptom.

Word pertaining to prevention or treatment of disease.

Word pertaining to any normal bodily function.

Word pertaining to the preservation of health.

Word denoting or implying a state of health.

Any athletic sport or form of exercise.

Any anatomical organ or region.

60. BIBLE

Name of any personage mentioned in the Bible.

Any religion or religious denomination.

Any name or attribute employed in reference to the Deity.

Any article or act of religious ritual.

Word denoting or implying belief, disbelief, or doubt.

Any term of theology.

61. MEMORY

Word pertaining to operations, faculties, endowment, training, or condition of the mind.

Word denoting any degree of accuracy.

Word denoting the cranium; any part of the psychical organ.

Word pertaining to the past.

Any word implying transiency.

Any subject of study involving the exercise of memory.

Any method or means for the reinforcement of memory.

Any of the senses.

Word denoting retention.

62. SHEEP

Any animal raised or hunted for clothing material, for food, or for its services as a beast of burden.

Any product manufactured from the skin or wool of sheep.

Any of the more or less distinctive characteristics of sheep.

Any food product derived from sheep.

63. BATH

Word denoting or implying an effect of bathing on the body.

Any body of water.

Any kind of bath; any part of bath, lavatory, or toilet equipment.

Any material of which a bathing equipment is largely made.

Word denoting a state of partial or complete undress.

Any beach or bathing resort.

Any aquatic feat of gymnastics.

64. COTTAGE

Word pertaining to landscape gardening.

Any place of cottage location.

Any part of a house; any color.

Any material used in the construction of a cottage.

Any laborer or mechanic having to do with the construction of a cottage.

Any part of the process of construction of a cottage.

Any commercial term pertaining to ownership, taxes, mortgages, sale, renting, or occupancy of a cottage.

Any article of furniture.

65. SWIFT

Any means or manner of locomotion.

Word denoting or implying motion or rate of motion.

Any animal or familiar object characterized by rapid locomotion.

Any word clearly related to the word Swift used as a proper name.

66. BLUE

Word which may be used to express subjective characterization of the blue color.

Any object or substance which is always or often blue in color.

Anything which is by convention or common usage connected with the blue color.

Any organ, tissue, or lesion, exposed to view, which may have a blue color imparted to it by the blood or by physiological pigment.

Any color or coloring material.

67. HUNGRY

Any animal.

Any article of food; any meal.

Word denoting taste or flavor.

Word denoting or implying privation or torture.

Any article of table linen, china, or silver.

Any private or public eating place.

Any organ of digestion; any function of nutrition.

Word designating any person engaged in the preparation or sale of foods.

68. PRIEST

Any religion or denomination.

Any article or act of religious ritual.

Any term of theology.

Word denoting or implying sanctity.

Word denoting or implying belief, disbelief, or doubt.

Word pertaining to church organization.

Proper name of any priest.

Any article of clerical attire.

Any profession more or less peculiarly masculine.

69. OCEAN

Any body of water.

Any plant or animal living in the ocean.

Any term of physical geography.

Any vessel or contrivance for navigation.

Word pertaining to navigation; any nautical term.

Common or proper name of any place bordering on the ocean.

Any aquatic feat of gymnastics.

70. HEAD

Any organization which has a person occupying the highest office.

Word denoting or implying the highest office of any organization.

Any intellectual faculty, quality, or operation.

Any part of the head.

Any pathological condition affecting the head.

71. STOVE

Any part of a stove.

Any kitchen utensil.

Any artificial heating apparatus; any fuel.

Any manner of cooking; any person engaged in cooking food.

Any article of household furniture.

72. LONG

Any word involving the concept of duration.

Word denoting shape, relative or absolute dimension, or distance.

Any object in which characteristically one dimension exceeds any other.

73. RELIGION

Any religion or denomination; the name of any race or nation.

Any term of theology.

Any branch of metaphysical philosophy.

74. WHISKEY

Any beverage; the name of any brand of whiskey.

Any material of which whiskey is made.

Word denoting taste or flavor.

Any occasion or ceremony commonly associated with the use of alcoholic beverages.

Word denoting a state of lowered consciousness.

Any physiological or pathological effect of alcohol; also any well known indirect effect.

75. CHILD

Word denoting or implying age of a person.

Word pertaining to familial relationships or domestic organization.

Name of any person.

Any part of a person's body.
Any article of a child's apparel.
Any common child's toy or game.
Word pertaining to educational organization.
Any word descriptive of the natural physical or mental make-up of a child, or of the rate or degree of physical or mental development.
Word pertaining to any custom or ceremony connected with the birth or rearing of children.
Any term of obstetrics.
Any word clearly related to the word Child used as a proper name.

76. BITTER

Any substance having a bitter, sour, sweet, or salt taste, or a complex taste quality which may be characterized as strong.
Word denoting a taste or flavor quality.
Any organ of taste.
Any word in connection with which the word bitter may be used in the sense of poignant.

77. HAMMER

Any tool or weapon.
Any trade involving the use of a hammer.

78. THIRSTY

Any beverage.
Any animal.
Word denoting taste or taste quality.
Any part of the upper end of the digestive tract.
Any drinking place; any container of a beverage.
Any fruit; any dessert.
Any food ingredient commonly known to excite thirst.

79. CITY

Name of any division of political geography.
Any architectural structure.
Any part of a city.
Word pertaining to the political organization of a city.

80. SQUARE

The name of any city.
The name of any square in a city or town.
Any geometrical figure or part of one.
Any object that is always or often square in shape.
Any device used in the arts for measuring angles, arcs, or distances between points.
Any part of a carpenter's or draughtsman's square.
Any trade involving the use of the square.

81. BUTTER

Any article of food; any meal.
Any article of table linen, china, or silver; any cooking utensil.
Any process of cooking.

82. DOCTOR

The name of any physician.
Any medical speciality or practice.
Any medical or surgical procedure.
Any therapeutic remedy or method.
Any organization for the treatment of disease.
Name of any injury or disease.

83. LOUD

Any sound or sound quality.
Any part of the human vocal apparatus.
Any act of vocalization.
Any musical instrument.
Any apparatus for making sound signals.
Word denoting renown or commendation.

84. THIEF

Word denoting crime or wrongdoing.
Word denoting any circumstance propitious for theft.
Any common measure for the prevention or punishment of crime.
Any judicial, police, or penal authority.
Any readily portable article of value.
Word denoting renown.

85. LION

Word denoting or implying fear.
Any animal.

86. JOY

Word denoting a state, quality, faculty, or function of the mind.
Any common manifestation of emotion.
Any occasion, act, or means of recreation or of pleasurable excitement.

87. BED

Any article of bedding, bed linen, or night-clothes.
Any article of furniture.
Any living room, apartment, or building.
Any part of a room.
Any division of the diurnal cycle.
Any material of which beds are made.
Word pertaining to sleep or rest.

88. HEAVY

Word denoting or implying weight or lightness.

Any object or substance which characteristically possesses the quality of either great weight or marked lightness.

Any means of support or suspension.

Any fabric; any article of clothing or bedding.

Word denoting something to be carried or transferred.

Any painful emotion.

Word denoting a state of lowered consciousness.

89. TOBACCO

The name of any brand or variety of tobacco.

Term denoting any common quality of tobacco.

Any physiological or pathological effect of tobacco.

Any word which expresses subjective characterization of tobacco.

90. BABY

Word denoting or implying age or size of a person.

Word pertaining to familial relationships or domestic organization.

Name of any person.

Any part of a person's body.

Any article of a child's apparel.

Any common child's toy or game.

Word pertaining to any custom or ceremony connected with the birth or rearing of children.

Any term of obstetrics.

91. MOON

Any term of astronomy.

Word denoting or implying illumination or obscuration of light.

Any division of the diurnal cycle.

92. SCISSORS

Any operation or handicraft involving the use of scissors.

Any fabric; any article of clothing.

Any metal of which scissors are made.

Any tool for cutting, piercing, or sharpening.

Any operation of cutting, piercing, or sharpening.

93. QUIET

Any place where silence usually prevails or is enforced.

Word denoting or implying a state of lowered psychical activity or of psychical inhibition.

Word denoting heightened psychical activity.

Any word pertaining to the emotions.

94. GREEN

Word which may be used to express subjective characterization of the green color.

Any object or substance which is always or often green in color.

Anything which is by convention or common usage connected with the green color.

Any color or coloring material.

Any plant, collection of plants, or part of a plant.

Any word clearly related to the word Green used as a proper name.

95. SALT

Any article of food that is usually seasoned with salt; any seasoning; any relish.

Any article of table linen, china, or silver.

Any process of cooking.

Any term of chemistry.

96. STREET

Name of any street or city.

Any part of a street.

Any building.

Any manner or means of locomotion commonly employed in traveling through streets.

97. KING

Any name of the Deity.

The proper or common name of any ruler of a nation or of a smaller municipality.

Any nation or country.

Any title of nobility.

Any word clearly related to the word King used as a proper name.

98. CHEESE

Any article of food; any meal.

Word denoting any variety of cheese.

Word pertaining to taste, flavor, or odor.

Word pertaining to appetite.

Any article of table linen, china, or silver.

99. BLOSSOM

Any plant, collection of plants, or part of a plant.

Any term of botany.

Any division of the annual cycle.

100. AFRAID

Any affective state; any common demonstration of emotion.

Any common object of fear.

Word denoting or implying danger, courage; any means of defense or protection against danger.

